







# CLI CLIMATOLOGICAL DATA.

No. 1

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vor., XXXI. COLUMBIA, S. C., JANUARY, 1928.

GENERAL SUMMARY.

The month was one of striking thermal variations, opening showfully ranging from Traces to 1.0 inch, occurred in most sections back from the coast on the 3d, and snow flurries The month was one of striking thermal variations, opening period of abnormally high temperatures that culminated in occurred at a number of stations up-State on the 28th. readings that exceeded or equaled previous records at a number of stations. The rainfall averaged much below normal.

Unseasonable cold during the early part of the month was crops recovered vigor with the succeeding warm weather, ex-Two rather hard freezes toward the end of the month were at-Two rather hard freezes toward the end of the month were attended by further damage to oats and truck, and growth of wheat and rye were checked. Spring plowing made slow progress. Many hogs were hutchered during the savies of freezes. Many hogs were butchered during the series of freezes. Tree fruits were in good condition, notwithstanding the prolonged warm spell during the middle of the mouth.

#### PRESSURE.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was 30.19 inches. The highest pressure was 30.69 inches at Due West on the 6th; the lowest pressure was 29.43 inches at Charlotte, N. C., on the 24th, and in the Section proper, 29.50 inches at Greenville on the 19th.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 36 stations, was 44.7°, or 0.8° below the normal. The highest temperature was 81° at Summerville on the 17th, rens, 26. The January maximum temperature records were equaled or ville, 7, 18 exceeded at a number of stations. The warm periods were from the 7th to 19th, inclusive, and on the 24th and 25th, when the daily means ranged from 5° to 24° above normal. The lowest temperature was zero at Caesar's Head on the 2d. The lowest periods were from the later with the periods were from the 1st to 6th, on the 21st and 22d, and from the 28th to 31st, inclusive, with subnormal departures of 5° to 32° per day.

#### HUMIDITY.

The mean relative humidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was as follows: 8 a.m., 74%; noon, 50%; 8 p. m., 58%. The highest percentages occurred over the northwestern counties. and the lowest, in the central region.

### PRECIPITATION.

The average for the Section, 51 stations reporting, was 1.48 inches, or 2.06 inches below normal. Precipitation was very irregularly distributed in four periods, and the amounts ranged downward from over 3 inches in the higher Piedmont to ess than one-quarter inch in the upper Santee basin. The greatest monthly amount was 3.20 inches at Walhalla; least monthly amount, 0.10 inch at Rimini. The greatest amount

during any 24 hours was 1.90 inches at Edgefield on the 1st. The average number of rainy days was 38% below normal.

Damage by Wind Squalls .- Thunderstorms at a number of stations on the 24th and 25th were attended by rather violent wind squalls, which caused damage to roofs, windows, trees, and public service property, as follows; 24th, 38 miles, Columbia, estimated \$5,000; 24th, Rock Hill, approximately, \$2,000; 24th, Chester, estimated at \$1,000.

#### WIND.

The prevailing wind was from the west. The average decidedly unfavorable for winter grain and hardy truck. These hourly velocity, determined from 9 anemometer records, was 7.5 miles. The highest average velocity was 10.9 miles per hour cept outs and truck, much of which suffered material damage at Savannah, Ga., and in the Section proper, 8.9 miles per hour by the general freeze, necessitating considerable replanting at Due West; the lowest average velocity was 5.3 miles per hour

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 205.2 hours, or 65% of the possible amount. The average number of clear days was 18; partly eloudy, 6, and eloudy, 7, as against normals of 13, 7, and 11 days, respectively.

#### RIVER CONDITIONS.

There were no floods in any of the streams, as rainfall was generally light.

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 7; Columbia, 2, 7, 8, 9; Lau-Solar: Columbia, 7, 30; Due West, 12, 18; Green-

Fog, dense. - Beaufort (near), 14, 15, 17; Columbia, 16; Due West. 9, 24; Garnett. 14; Greenville, 9; Mars Bluff, 17; Rimini, 16; Trenton, 9, 11, 16, 17.

Meteor. - Noted by residents of Sumter and Wedgefield, and by hunters returning to Orangeburg, during the afternoon of the 27th, at hours variously stated at 1 to 3 or 4 p.m. A shaft of light several hundred feet above the hunters was followed by a heavy explosion, as from a large dynamite blast.

### MISCELLANEOUS DATA FOR JANUARY, 1928.

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Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex	30, 19 30, 20 30, 20 30, 20 30, 20 30, 22 30, 16 30, 22 30, 18	35.4 47.0 48.8 41.8 46.6 42.8 42.4 50.6 47.6	69 80 79 75 78 75 74 77	10 18 6 10 6 5 17 14	1. 15 0. 75 0. 43 1. 77 0. 83 2. 30 2. 99 0. 39 1. 07	0, 57 0, 53 0, 33 0, 70 0, 60 1, 02 1, 12 0, 36 0, 64	7. 5 5. 4 8. 6 5. 3 6. 3 8. 9 8. 5 10. 9 5. 9	n. nw. sw. sw. w. sw. w.	79 81 69 72 72 78 68 73 71	53 51 49 49 42 54 52 54 48	61 58 64 54 48 56 58 62	61 71 62 67 69 54 71 61 67
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Stations.	Counties.	Elevation, feet.	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	(0.01 in. or more)	Clear.	Partly cloudy.	Clouds.	Prevailing direction of wind.	Observers.
Eastern Portion.  Beaufort (near)*! Blackville Charleston. Cheraw. Conway Darlington. Edingham. Ferguson** Forence ! Florence 2. Garnett. Georgetown Kingstree. Marion. Mars Binif. Orangebring Pinopolis Rimini Society Ilil Sammerville Wedgelield Yennissee.  Division means and	Florence Orangelung Florence do Hampton Georgetown Williamsburg Marion Florence Orangeburg Berkeley Sunter Darlington Darlington Darlington Darlington Hampton	18 54 68 92 264 56 191 74 249 2	\$7 42 46 13 10 35 10 35 14 12 12 14 81 7 14 14 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	48.8 45.8 42.4 47.8 44.2 45.4 45.5 *47.5 45.0 47.0 45.0 46.2 48.4 48.4	-2.8 -1.1 -1.5 -0.3 -1.2 -1.8 0.0 -2.5 -1.1 -1.9 -2.3 +0.1 -1.9 -2.3 -2.3 -2.3 -2.3 -1.3	79 78	18 15 15 15 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	16 8 8 12 10 14 13 13 12 4 10 15 15 12 12 12 8 8	2 4 4 4 4 4 1 5 2 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	45 30 51 51 54  52 41  53  54  58  51  53  54  55  55  56 56 56  56 56 56  56  56  56  56  56  56  56  56  56  56  56  56  56  56  56  56  56  56	0.72 0.43 1.26 1.10 1.35 1.51 1.37 1.61 1.37 1.68 0.89 0.61 0.75 0.99 0.10 1.07 0.91 0.10 0.66 1.07 0.99 0.99	-2.05 -2.59 -1.86 -2.42 -1.79 -2.15 -2.08 -1.66 -2.11 -2.05 -2.56 -2.11 -2.31 -2.22 -3.66 -2.00 -2.11 -2.31 -2.2.2	0. 55 0. 83 1. 02 0. 40 0. 68 0. 45 0. 10 0. 77 0. 47 0. 78 0. 32	0.2 T. 0 0 T.	3 3	22 12 21 22 26 20 18 25 22 20 15 24 21 18 26 20 21 22 20 20 20 20 20 20 20 20 20	6		sw. w. sw.	Mrs. R. L. Fripp. Mrs. D. B. Sunners. Ir. S. Weather Bureau. Roland D. Powe. Parl Quanticleanun. D. C. McCall. Wm. B. Gilbestie. Heury C. Savage. H. K. Gilbert. Pre Dee Experiment Sta. B. P. Hazard. Mrs. Etlen Scott. Alden F. Schul. E. R. Fisheries Station. Hiss E. P. Ravenel. Boykin R. Cantey. E. D. Fields. Jr. Clemson Coss Exp. Sta. VY. G. Hurson.
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (e, b, c), appearing in the table indicate number of days missing, for example, b represents two days missing, etc. "Temperatures, if Received too late to be included in means and summaries," "Temperatures, from observed readings of the dry inhib, means are computed from observed readings of their earlies of these various were afficiently as a first of the summaries, and the summaries, and the summaries of the second of of the

#### ERRATA.

November, 1927.—Due West, minimum temperature, page 44, 27th, should be 54.

December, 1927.—Crescent, total precipitation, page 46, should be 9.05. Ferguson, date of maximum temperature, page 46, should be 13. Aiken, mean temperature, page 46, should be 49.0. Laurens, prevailing wind direction, page 46, should be northeast. Spartanburg, date of maximum temperature, page 46, should be 14.

#### Daily Precipitation for January, 1928.

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Except us otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of observation. ||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the 24 hour period, midnight to midnight. \* Precipitation included in the next following measurement. Isoparate dates of fulls not recorded. T. Trace, or less than 0.01 inch.

## COMPARATIVE DATA FOR JANUARY.

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Year.	Mean.	Highest	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Preva i wind	Year.	Mean.	Highest.	Lowest.	Average.	Average lays with 0.01 inch or more.	Clear.	Partly cioudy.	Cloudy.	Prevail wind di
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Orangeborg   Maximum   Minimum   Maximum	61 27 38	31 10 30	1 1	34 12 36	28 48 12 48	16 59	21 65	30	48 67	34	43	69		43 75	43 78	43	49	55 79	52 75 51 67	40	52 25 40	18 48	608	64	35 58	34 48	36	26 35	45 17 40 12	58 30 53 . 15 . 62 22 57 38	40	61, 2 32, 8 *54, 7 *24, 2 60, 6
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Wedgefield / Minhmum Yennssee Maximum	42 30 58 28 61 29	35 15 3 1	2 1	9 14	18 52 18	61	60 24	40 71 34	32 69 50	35 66 38	74 35 70 40 78 44	42 73 41	75 85 70 52 78 50	74 50 76 46	78 41 80 47 78 60 77 45	80 47	78 51	80 56	72 58	66 43	55 28	50 19	28 64 27	64 30	64 43 67 45	49 33	61 35	28 58 27	50 15	65 34	71 41	62.6 84.2
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Little Mountain   Maximum   Minimum		21	21 5	17 1 27 8 15	10 1	4 22	32	40	3 60	3	4 40	4:	2 49	47	46	45	48	50	47	38			28		36	33	30	21				
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Winsboro W Minimum Maximum Winthrop College Minimum	::	14 81 26 57	25	9 26	84 12 35 11	14 1 47 6 14 2	2 6 0 3	3 5 1 3	8 6	5 6 7 3	2 6	5 7	1 7	2 7	8 7	8 6	77	7 70 5 5	6	5 3	7 4	1 1	0 2	35 F8	6 3	0 3	9 5	8 2	6 3	1 24	3	30.6
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# CLIMATOLOGÍCAL DATA

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

Vol. XXXI. Columbia, S. C., February, 1928.

No. 2.

#### GENERAL SUMMARY.

Relatively low maximum temperatures generally and rather low temperatures during the latter part of the month more than offset the mild weather during the first half, and the mean temperature was consequently somewhat below normal. Precipitation averaged slightly above normal.

Wheat and rye maintained about normal development, though rather severely checked during the January freezes, which necessitated considerable out and winter truck replanting. Tree fruits were relatively dormant and rather backward. Much hog killing was done during the month. Frequent cold nights and rather low day-time temperatures permitted only slow crop growth, but replanted oats were germinating satisfactorily as the month closed. White potato planting proceeded rapidly on the coast by the 14th, and spinach shipments had begun.

#### PRESSURE.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was 30-15 inches. The highest pressure was 30.58 inches at Asheville, N. C., on the 4th, and in the Section proper, 30.55 inches at Columbia and Due West on the 3d; the lowest pressure was 29.55 inches at Charlotte and Wilmington, N. C., on the 18th, and in the Section proper, 29.61 inches at Columbia on the same date.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 36 stations, was 46.2°, or 1.2° below the normal. The highest temperature was 75° at Garnett and Yemassee on the 4th. The warmest periods were from the 1st to 14th, inclusive, with few exceptions, and also on the 23d and 24th, when the daily mean temperatures ranged 5° to 16° above normal. The lowest temperature was 13° at Walhalla on the 19th. Marked cool periods were noted on the 18-20th and 25-27th, inclusive, with mean temperatures ranging 5° to 19° per day below normal.

#### PRECIPITATION.

The average for the Section, 50 stations reporting, was 5.05 inches, or 0.72 inch above the normal. Precipitation occurred in four fairly well defined periods, with fair distribution as to area and amounts. The heaviest rainfall occurred in the low country, with total amounts ranging from 5 to over 9 inches; in the higher elevations the measurements ranged downward from 4 to less than 3 inches. The greatest local monthly amount was 9.51 inches at Beaufort (near), and the least was 2.65 inches at Due West. The greatest amount during any 24 hours was 3.00 inches at Camden on the 22-23d. The average number of rainy days was 12% above normal.

Scattered snow flurries occurred in sections of the northwestern counties on the 13th, 18th, and 22d, and sleet occurred at a few stations on the 13th and 18th.

#### WIND

The prevailing wind was from the west. The average hourly velocity, determined from 9 anemometer records, was 7.5 miles. The highest velocity for any 5-minute period was 48 miles per hour from the west at Savannah, Ga., on the 18th, and in the Section proper, 39 miles per hour from the west at Due West and Greenville on the same date.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 164.6 hours, or 52% of the possible amount. The average number of clear days was 14; partly cloudy, 4, and cloudy, 11, as against normals of 15, 6, and 9 days, respectively.

#### RIVER CONDITIONS.

which necessitated considerable out and winter truck replanting. Tree fruits were relatively dormant and rather backward, Much hog killing was done during the month. Frequent cold at Ferguson, on and after the 24th. The Pee Dee River was in flood at Aurs Bluff on and after the 26th.

#### EXPRESSION OF APPRECIATION.

The American Meteorological Society at its last meeting at George Peabody College, Nashville, Tenn., on December 30, 1927, passed the following resolution of appreciation for the public-spirited services of cooperative observers:

"The members of the American Meteorological Society here assembled heartily indorse the action of the Program Committee in planning a session in the interest of and participated in by the cooperative observers of the State of Tennessee. They recognize fully the fine spirit and the unselfish services of these faithful servants of the public and appreciate the valuable contribution they are making to local and national weather history.

"While enjoying x x personal contact with a number of these observers, the Society regrets x x that the entire force could not be present. x x To the several thousand other observers scattered throughout the United States the Society wishes to extend its greetings and its best wishes x x and also to express its appreciation of the important part they are playing in establishing the climatology of our country."

1. The lowest temperature was 13° at Walhalla on the Marked cool periods were noted on the 18-20th and h, inclusive, with mean temperatures ranging 5° to 19° below normal.

The Columbia office gladly publishes this resolution to emphasize further an appreciation of the work of our own cooperative observers here in South Carolina, who have given freely of their time and labor in the interest of the climatology of their respective communities and the State at large.

#### MISCELLANEOUS DATA FOR FEBRUARY, 1928.

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Stations.	Barometer, level.	Vean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage o
Asheville, N.C Augusta, Ga Charleston, S.C Charlotte, N.C	30, 15 30, 15 30, 14 30, 14	39 2 48.9 51.7 43.7	64 72 70 66	13 22 26 20	0, 96 5, 84 7, 44 3, 57	0. 36 2. 05 2. 57 1. 44	8 7 4.9 9 1 5,3	nw. nw. w.	79 84 80 75	56 60 61 58	62 63 77 61	58 58 39 53
Columbia, S. C Due West, S. C Greenville, S. C Sayannah, Ga	30, 16 30, 18 30, 14 30, 15	47. 4 44. 2 44. 6 53. 2	71 67 67 73	21 17 19 24	5 41 2.65 3.30 6 69	2, 62 1, 19 1, 57 2, 61	6. 0 8. 3 8. 4 10.2	ne. sw. ne.	81 79 77 83	57 62 66 68	62 64 72	54 43 66 42
Wilmington, N. C. Means and ex- } tromes (	30. 16 30. 15	49. 4 46. 9	68 73	27 13	6.14	1.89	6.5	w.	83	63	78 67	52 52

#### Climatological Data for February, 1928.

					Clima	tologi	ical 1	Data	for	Febr	uary,	1928.								
			record,	1	empera	ture. i	n degr	ees Fa	hr.		Precip	itation.	in inch	es.	Num	ber o	da	ys.	4 ion	
Stations.	Counties.	=	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	(0.01 in. or mare)		Partly cloudy.	Clouds.	Prevailing direction of wind.	Observers.
Eastern Portion. Beaufort (near)‡‡ Blackville Clarieston Cheraw Conway Darlington†† Ethinghun Fergison‡‡	Beaufort	21 296 48 144 25 175 106 63	47 44 57 46 38 33 37 42	50. 9 51. 7 44. 4 49. 4 45. 8 46. 8	-1.1 -0.7 -1.0 +1.0 -0.2 -1.4 +0.1	78 70 72 72 73 72 70	4 5 4 4 4 4	25 26 20 25 23 24	19 † 3 19 † 3	31 24 52 45 45 40	9. 51 7. 44 5. 63 6. 54 7. 51 6. 82 5. 18 6. 36	+6. 12 +4. 36 +1. 56 +2. 23 +3. 90 +2. 11 +1. 38 +2. 27	2.16 2.57 2.48 1.65 8.65 2.21 2.22 2.54	0 0 0 0 0	11  13 9 15 7 6 8	12 9 15 14	7  0 0  3	10 15 14 15	e. w. se.	Mrs. R. L. Fripp. Mrs. D. B. Sanders. U. S. Weather Bureau Robind D. Powe. Paul Quartlelamin. D. G. McCall. Wu, B. Gillespie. Henry C. Savage. H. K. Gilbert.
Florence 1 Florence 2 Garnett Georgetown Kingstree Marion Mars Bluff. Orangelmrg Phopolis	FlorencedollamptonGeorgetown Williamsburg .MarionFlorence .Orangeburg .Berkeley	136 136 82 18 54 68 92 264 54	46 13 10 35 46 3 5 12 81	49. 4 47. 8 50. 1	+1. 6 -3. 0 +1. 0	75 1·75 74 74 74 72 667	4 5 4 4 4 7 4 23	22 m25 24 20 25	19 †20 19  19 19	46 m87 48	6. 18 8. 44 9. 01 5. 28 4. 12 5. 94 6. 00 5. 66	+2. 04 +4. 94 +4. 98 +1. 44 +2. 55 +2. 15	2. 62 2. 00 2. 91 1. 67 1. 06 2. 13 1. 40 2. 25	0 0 0 0 0 0 0	8 7 11 8 7 11 8 10 6	14 11 14 15 16 	1 8 7 5 0  8 0	14 10 8 9 13 7 12	w. s.	Pee Dea Experiment Sta. Manner B. Robert. A. P. Huzard. Mrs. Ellen Scott. Alden F. Schul. Rosa R. Davis. I.S. Fisheries Statlon. Miss E. P. Ravenel.
Rimini	Sunter Darlington Dorchester.	75 249 24	30	*44 2 48.9 47.4 51.0 48.5	-1.0 -1.2 -1.1 +1.3 +0.5	*71 71 72 75 75	4 28 4 4	21 23 24 21 20	19 19 19 19 19	*46 38 38 40 52	5. 46 6. 17 7. 96 6. 25 7. 85 6. 58	+2.40 +1.80 +4.04 +2.20 +4.30 +2.54	1. 45 2. 92 2. 17 1. 75 1. 60 2. 91	0 0 0 0 0	11 8 11 9 8	17 14 15 15 15	0 3 4 1	12 12 10 10 13	W. ne. W. sw.	Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta. W. Hampton Ramsey W. G. Hutson.
H'estern Partion.  Alken Anderson Blairs Cassars Head  Collinoin Falls Camden	Anderson Fairfield Greenville Abbeville Kershaw	764 293 3118 508 222	35 23 4 29 78	48. 8 45. 2 44. 8 45. 6	-0.4 -0.3 -1.6	72 71 60 73 72	11 14 6 4	19 16  17 15	19 19  19 19	40	6.86 8.45 4.01 5.18 8.35 6.28	+2, 36 -1, 71 -0, 06 -2, 01 +2, 32 +0, 68	1.36 1.69 1.86 1.47 3.00	0 0 0 T. 0 0	9 11 6 7 7 7	15 17  8 11	0 2  6 4	14 10 15 14	ne. w.	Frank B. McCny H. H. Russell. Esther B. Owens. Crear's Head—P. Mtn. Co L. M. Purker. Henry A. Brown. James C. Faris.
Catawbu Chappelis Cherokee (near) Cliester Clemson College Columbia	Spartanburg Chester Oconee Richland	758 487 850 851	23 6 36	41.8 45.6 47.4	+1.7	64 71 71	8 5 4	14 14 21	19 19 19	47	3.86 3.79 3.42 3.67 5.41 8.30	-0.34 -1.78 +0.70	1. 67 1. 29 1. 49 2. 62	0 0 0	10 10 9	15 12	7 6	6  7 11	sw.	George V Clamp. Spartanburg Water Works. J. C. Cornwell. Prof. F. H. H. Cathoun. U S. Wenther Bureun. Broad River Power Co.
Crescent. Due West Edgeffeld Gaston Shoals II. Greenwood. Heath Springs	Abbeville Edgefield Cherokee Greenville Greenwood	680 1039 671	14 14 25 3 44 4 44 8 26	44.2 44.2 43.6	+0.9 -1.3 +0.2	67 68 435	5 † 5 4	17 19 17 20	19 19 19	31 40	2.65 4.65 3.97 3.30 3.96 4.34	-2.51 +0.82 -0.53 -1.94 +0.06 +0.44	2. 13 1. 62 1. 57 1. 47	T. 0 T. 0	10	14	7 0 0	12 10 15	ne. w.	U. S. W. B. Aerological Sta. Agent C. and W. C. Ry. S. C. I. L. Power a Ry. Co. U. S. Wenther Burean. M. M. Calhonn. J. Marviu Bowers. Rue Ridge Forests Co.
Hogoack Mountain .  Kershaw Landrum Laurens Little Mountain .  Lockhart#	Greenville Kershaw Spartniburg Laurens Newberry Union	. 8025 . 500 . 1068 . 589 . 711	5 2 12 3 13 10 1 35 5 2	45. 4 41. 6 45. 6	+0.5		4 5 † 4	19 18 18 18		43	5. 16 3. 22 3. 31 4. 72 3. 23	+1, 42 -1,83 -1,72 +0,32	1. 41 1. 38	T. T.	10 11 8	11	0 7 9 8	15 7 6 10	w. sw.	Blue Ridge Forests Co. John W. Hamel. R. Hartwell Wilds, D.D.S. L. G. Rolf. Miss Alberta Sease. Broad River Power Co. John H. Baxter.
Newberry Pelzer Saluda Santuck Spartanburg Trenton Walhalla	Spartauburg Edgefield	. 850 . 536 . 511 . 876 . 620	24 5 26 2 35 5 51 0 35 1 28	45.2 43.6 41.6 48.0 41.6	-1.5 +1.3 -1.2	68	† 5 5 4 † 5	19 16 18 18 18	19 19 19	9 46 9 38 9 43 9 45	3, 78 3, 80 3, 75 3, 40 4, 58 3, 40 4, 12	-1. 17 -0. 78 -1. 20 -1. 36 -0. 34 -2. 08 -0. 2	1.50 1.80 1.65 1.00 1.27	0000	6 10	10 13 12 15	10 6		e. sw.	Joshum Y. Jones. W. S. Crout. E. W. Jeter. M. H. Daniel. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson. W. H. Generoe.
Winnsbord Winthrop College # Division means and Section means and	York	. 690	0 28	44.4	+0.3	68	6 4	18 17 13	19	9 41	4.00	-0.18 -0.58	3 1.20 3 3.00	T.		11	6	10	w.	W. T. Clawson.

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, b, c), appearing in the table indicate number of days missing; for example, \* represents two days missing, etc., † Also on other dates. †† Received too late to be included in means and summaries. \*\* Temperature data are from observed readings of the dry buble; means are opposed from observed readings. †Post-office addresses of these stations was as follows: Off daston Stooks, Blacksburg; of Windram College, Ruck Hill; of Ferguson, Eutawville; of Cesar's Head, Greenville; of Beaufort (near), Burton.

The Precipitation is less than 0.01 inch of rain or melted show.

#### ERRATA.

January, 1928.—Beaufort (near), number of cloudy days, page 2, should be 3. Walhalla, total precipitation, pages 2 and 3, should be 3.22. Florence No. 1, mean maximum temperature, page 4, should be 5.7.

#### Daily Precipitation for February, 1928.

								seil)	P	reci	pit	n til	)H 10	or 1	epr	uni	у,	192	0.						-	_							
	Drainage-															Day	ol m	outi	٦.													-	
Stations.	basins.	1	2	8	4	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	80	31	Total.
Enstern Portion. Beaufort(near)	Coast								. 10					72			. 95						. 09	1.84	1. 80	2. 16							9.51
Blackville	Edisto						. 02	17	. 16		1		100	. 5×	. 27	. 15	. 77	1.53	.01					96	1 8	1 26							7.41
Cheraw	Pee Hee Waccamaw		08				.08	T.	1.05				.1		. 21	. 08	. 42		1.18					2.4×			05						5. 63
Darlington III	Pee Dee														.32		.50		1. 42														7.51
Ellinghum      Fergusan	Lynches Santee						T.	0.2	1.67	38					. 33	40	. 61		1.51 2.22	·m·				2, 21		r	T.						6, 82
Florence 1	Peter Dress	. 0:2				. 02	T.	T	1.38						. 18		. 21		1.46					2.54			55						6. 36
Garnett	Savannah	T.							. 25					. 90	. 07	.01	1. 10	1. 36	. 70				. 07	2. 00	. 70	1.28							8.44
Georgetown	Bluck								1.03					. 40	.43		. 87	. 96	1.37														9. 01 5.28
Marion	Pee Dee			. 03			1.01	. 05.	. 11					. 15	. 18	. 48	. 48	. 07	1.07			.21	1.06	T.	. 47	1							4.12
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Pinopolis Rimini ##	Cooper						. 03	т.						.43		. 95		1.75							2.25	.25							5.66
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Chester (near)		. 23				T.	. 06	. 08	. 84					. 11	. 26,		- 16	. 02			100		1.29	27									3. 42
Clemson College	Broad	.26						08	.75	• • • •		• • • •			. 40	• • • • •	.20	22	• • • • •		• • • •		. 49	12	01							• • • • •	3.67
Columbia	Congaree					T.		.05						.29	. 17	.26	.18	1.30					2. 42	. 20	T	.20							5.41
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Greenwood	Saluda	. 01				T.	. 03	.38	. 45					. 33	. 06	. 10	. 04	. 33				1	. 57	T.									3.97
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Henth Springs Hogback Mountain	Wnteree	. 13					. 03	. 64							. 46				1.08			2	. 00 -										4.34
Kersha W	Broad	10					.03		49						. 64		99																
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	Saluda	. 23					. 01	. 12	. 55					. 34	. 09		. 25	. 22	. 09			1	. 88	.03									3.31
Little Mountain	Saluda					.			. 40					. 28	.20		. 35	. 66	.68			1	.00 1	. 15									4.72
Lockhart Newtorry	Broad								.75						191.		36		48	. 20			11	001									3.23
Pelzer III		64				.02		.04	.58				::::		.36	. 04	.22		.32				i	. 52	. 04	•••	• • • • •						3, 78
Salada Santuck	Broad	12	- 1					.02	.23					.27	. 09 .		.27	. 37				i	. 50	.60		.05							3.80
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Spartanburg      Trenton	do							. 15	. 75						. 45 .		. 15		. 25 .					. 65									3, 40
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Wintsboro       Wintsboro College									. 31						· 40).		.32		.90			.	2	. 05									3.40
Winthrop College	Catawna	.36						. 07	.68		• • • •			]	· 60 .			. 47	. 23			. 20	. 39										4.00

Except as otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of observation. Ill Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the 24-hours period, midnight to midnight. \* Precipitation included in the next following measurement. ISeparate dates of falls not recorded. T. Trace, or less than 0.01 Incl.

	,					co	MPAR	ATIVI	E DAT.	A FOR FEI	BRUAI	RY.							
	Tem	peratu	re.	Precip	itation.		dnys.	ber of	iling direc- n.		Те	mperutn	re.	Precip	itution.	Averag	e numl dnys.	ber of	ing irec-
Year.	Mean.	Highest.	Lowest.	Ауегаде.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di
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Reference letters (4, b, c), amearing in the table indicate number of days missing; for example, b represents two days missing, etc.

66 Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 3-22 28-900

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol., XXXI. COLUMBIA, S. C., MARCH, 1928.

No. 3.

#### GENERAL SUMMARY.

The month was marked by frequent thermal changes, and the mean temperature was somewhat below normal. Precipitation averaged close to normal, but was unevenly distributed.

Winter cereals and truck made fair growth during the month, though kept in check to some extent by the rather frequent cold and frosty nights. Winter-killed oat replantings developed good stands toward the close of the month, and asparagus and radish shipments began from the trucking regions during the last decade. Spring plowing, though backward, made good progress. The weather was especially favorable for tree fruits, which came into general bloom during the last week, and were in unusually good condition. Though frosts were quite frequent, there was no material damage. Wild shrubbery and forest trees were leafing generally as the month closed.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was 30 00 inches. The highest pressure was 30.45 inches at Due West and Charlotte, N. C., on the 6th; the lowest pressure was 29.41 inches at Wilmington, N. C., on the 17th, and in the Section proper, 29.45 inches at Charleston on the same date.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 41 stations, was 53.9°, or 0.9° below the normal. The highest temperature was 88° at Garnett and Trenton on the 29th. The warm periods were on the 8-9th, from the 12th to 16th, and from the 23d to the 29th, inclusive, when the daily mean temperatures ranged from 5° to 17° above normal. dally mean temperatures ranged from 5° to 17° above normal. matic records, was 214.2 hours, or 58% of the possible amount. The lowest temperature was 19° at Walhalla on the 19th. The amount. The average number of clear days was 14; partly cold periods were from the 2d to the 6th form the 19th. cold periods were from the 2d to the 6th, from the 17th to the 22d, inclusive, and at the close of the month, with daily mean days, respectively. temperatures ranging from 5° to 17° below normal. Late spring freezing temperatures were quite general up to the 22d, and in sections of the western portion as late as the 31st.

#### HUMIDITY.

The mean relative humidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was as follows: 8 a.m., 78%: noon. 58%: 8 p. m., 63%. The highest percentages occurred along the coast, and the lowest, in the interior.

#### PRECIPITATION.

The average for the Section, 53 stations reporting, was 3.87 inches, or 0.03 inch below normal. There were four fairly well defined periods of precipitation, with bad distribution as to area and amounts, the heaviest rains centering about the middle of the month. The total monthly measurements ranged from 4 to nearly 7 inches in the western counties and the southern coast region; in the central and eastern counties, the amounts ranged downward to below 2 inches. The greatest local monthly amount was 6.76 inches at Beaufort (near), and the least local monthly amount was 1.20 inches at Rimini. The greatest amount during any 24 hours was 2.52 inches at Beaufort (near), on the 16th. The average number of rainy days was 38% above normal.

Damage by Wind Squalls and Injury by Lightning. - A series of rather severe local thunderstorms, with damaging wind squalls, occurred in eastern Spartanburg, northern Union, and practice Cherokee Counties during the night, 26-27th, with losses by wind estimated at about \$3,000 near Mayo and Lockhart Junction. In the vicinity of Springfield during the early forenoon of the 26th, heavy hail was reported, with hailstones of large size; during the afternoon of the 30th, a thunderstorm and wind squall damaged farm property to the extent of about EKSTTY OF ILL \$3,000, and several tenants on the plantation of Mr. C. P. Read were injured by a bolt of lightning. At Rock Hill, during the early forenoon of the 30th, a heavy wind squall damaged buildings, plate glass, etc., with losses estimated by the Mayor at about \$6,000.

Measurable snowfall occurred at Caesar's Head on the 4th, and snow flurries were recorded at Greenville and Santuck on the 18th. Light hail occurred at Charleston, Laurens and Newberry on the 27th and at Santuck on the 30th.

The prevailing wind was from the west. The average hourly velocity, determined from 9 anemometer records, was 8.0 miles. The highest average velocity was 10.7 miles per hour at Savannah, Ga., and in the Section proper, 9.3 miles per hour at Charleston; the lowest average velocity was 5.7 miles per hour at Charlotte, N. C., and in the Section proper, 7.2 miles per hour at Columbia. The highest velocity for any 5-minute period was 50 miles per hour from the west at Savannah, Ga., on the 30th, and in the Section proper, 36 miles per hour from the west at Due West on the same date.

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 autocloudy, 7, and cloudy, 10, as against normals of 14, 8, and 9

#### RIVER CONDITIONS.

The Santee River was close to or somewhat above flood stages throughout the month. There was fair stream flow in the other rivers during most of the month.

#### MISCELLANEOUS DATA FOR MARCH, 1928.

		sea.		perati ees F		tic	ipita- on, ches.	Win	ıđ.	re	dear dati midi	ve	tage of pos-
	Stations.	Barometer level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible sunsi
The same of the sa	Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex-1	29. 98 30. 00 30. 00 29. 98 30. 00 30. 02 29. 98 30. 01 30. 00	45.8 57.4 57.4 50.9 55.4 52.4 51.7 59.6 54.0	79 87 77 81 85 83 81 84 78	23 33 40 28 32 26 27 40 32	3. 95 4. 35 3. 08 3. 53 2. 90 4. 15 4. 24 7. 16 1. 84	1.53 0.99 1.10 1.00 0.74 0.84 1.02 1.95 0.44	*9.4 6.1 9.3 5.7 7.2 9.1 8.0 10.7 6.9	nw. nw. sw. sw. ne. w. ne. w.	80 78 77 75 75 80 78 81 82	56 53 63 55 53 57 61 63 67	59 58 70 56 57 62 67 78	61 62 51 58 58 51 65 58 55
	tremes ( )	30.00	53, 8	87	23	3, 80	1.95	8.0	w.	78	58	63	58

\* 3-cup anemometers used since January 1, 1928.

### Climatological Data for March, 1928.

					Clima	atolog	rical	Date	a for	Mar	rch, 1	928.								
			record.	т	emperat	ture, in	degre	es Fa	hr.		Precip	itation,	in incl	ies.	Num	ber o	f da	ys.	ertion	
Stations.	Counties.	on, fee	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.		Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	(0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing director of wind.	Observers.
Eastern Portion.						- 1		В	1											
Beaufort (near) ‡‡ Blackville Charleston	Beaufort Barnwell	21 296 48 144	47 44 57 46	58.2  57.4 51.8	-0.5 -0.0 -2.0	82 	23 26 23	36 40 29	19 †19	46 23 57	6. 76 3. 08 3. 02	+3, 44 +0.06 -0.52	2. 52 1. 10 1. 03	0 0 0	14 11 9		10 11	9	e. sw.	Mrs. R. L. Fripp. Mrs. Margaret T. Sanders. U. S. Weather Bureau. Roland D. Powe.
Conway	Harry Darlington Florence Orangeburg	25 175 106 63	38 33 37 42	56. 4 53. 2	-0.2 -2.5 -1.0	84 85 83	30 29 	30 27 	† 3 † 3	52 47 43	2.80 4.53 3.19 3.79	$\begin{array}{c} -0.76 \\ +1.57 \\ -0.59 \\ +0.55 \end{array}$	0.68 0.95 0.52 0.61	0 0 0	13 10 18 12	14 14	0 2 	17 15	sw.	Paul Quaitlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Florence	136 136 82 18	46 13 10 35	54. 4 58. 5 56. 8	-1.4 -0.5 -0.9	80 88 81	24 29 29	29 29 27	† 3 3 20	42  52 47	3.68 3.59 4.73 2.32	+0.36 $+0.27$ $+1.00$ $-0.15$	1.10 0.67 0.80 0.80	0 0 T.	11 14 14 8	15	12 8 10	2 8 7	ne. s.	H. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. A. P. Hazard.
Kingstree	Williamsburg Marion Florence Orangeburg	54 68 92 264	46 3 5 12 81	57 0 435. 0 55. 6 56. 5	+0.1 -2.0 -0.3	83 485 85 80	†23 3 29 29	31 29  28 35	†19 20 3 22	50 455  52	2.77 3.65 3.10 2.69 3.57	-0.62 -0.89 -0.01	0. 52 1. 01 0. 70 0. 65 0. 90	0 0 0 0 0	10 7 12 10 12	20 20 12 17	2 1 14 3	9 10  5 11	s. s. sw.	Mrs. Ellen Scott. Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel.
Pinopolis  Rimini Society Hill Summerville Wedgefield	Sumter	54 97 192 75 249	14 37 30 38	51.2 55.9 56.7	-3.1 -2.5 +1.1	83 84 84 84	23 24 29 †23	25 30 32 30	20 † 3 †19	54 44 49 58	1.20 3.39 4.85 3.84 4.64	-2.18 +0.07 -1.55 +0.40 +1 20	0.50 0.77 1.29	0 0 0 0	12	17 12 15 10	2 3 9 7	12 16 7 14	w. ne. w.	Floyd C. Martin. E. D. Fields, Ir. Clemson Coast Exp. Sta. W. Hampton Ramsey W. C. Hutson.
Yemassee	Hampton	24	39	58. 0 55. 7	-0.9	88	29	25	†19	55	3.58	+0.08	2. 52	T.	11	14	7	10	sw.	
																				N. Control
Western Portion.											4.52	+0.57	1, 13		9	11	3	14	nw.	Frank B. McCoy.
Aiken Anderson Blairs Cæsars Head‡‡ Callionn Falls,	Anderson	527 764 293 3118 508 222	35 23 4 29	57. 6 53. 3 *46. 8 52. 2 53. 5	+2.0 -0.8 	87 85 *74 85 84	29 23  24 29 29	28 26 21 27 23	19 19 19 19 19	51 52 *39 48 51	5. 54 3. 95 6. 66 4. 53 4. 10	+0.37 +0.02 +0.25 -0.33 +0.41	1.02 1.02 1.30 1.10	0.2	12 11 8 10	15  7 12	11 4	14		H. H. Russell. Esther B. Owens. Casar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Camden  Catawbn Chappells. Cherokee (near) Chester Clemson College	York Newberry	562 402 758 487	22 23 6	51.2	+0.5	80	23	22	19	53	2.95 3.37 4.17	-1.16 -0.47	0.97		13 10		6		nw.	James C. Faris. George V. Clamp. Spartanburg Water Works. J. C. Cornwell. Prof. F. H. H. Calhoun.
Columbia	. Richland	850 351		53. 2 55. 4	+0.3	85	23	32	19	38	2.90	-0.80	0.74		) 11	ii	8	12	ne.	Broad River Power Co.
Crescent. Due West. Edgefield Gaston Shoals 11. Greenville. Greenwaod.	. Abbeville	680 1039	14 25 44	51.7 51.4	-2.8 +1.8 -1.5	83 81 84	29 23 30	26 27 27	19 19 19	38	4.15 2.23 4.91 4.24 3.59	-0.26 -1.56 +0.09 -1.15 -0.58	0.84 0.70 1.08 1.08	T.	5 12 14		10	12	ne.	U. S. W. B. Aerological Sta. Agent C. and W. C. Ry. S. C. Lt., Power a Ry. Co. U. S. Weather Bureau, M. M. Calhoun.
Heath Springs Hogback Mountain Kershaw Landrun	Laneaster	569 3025 500 1063	8 26 5 2 0 12 3 13	50.8	-3.0 -2.4 -0.3 +0.5	82 83 83 83	28 29 23 29	26 25 24 24	20	52 49	2. 45 2. 85 6. 00 4. 53	-0.76 -0.5 +0.55 +0.6	0.80		0 8 0 10 12	14 20	7  0 6 12	i	w. w.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Hamet. R. Hartwell Wilds, D.D.S. L. G. Roff.
Laureus Little Monntain Lockhart†† Newherry Pelzer Saluda Santnek	Newberry Union Newberry Anderson Salnda	. 500 . 850 . 530	1 35 6 2 2 24 0 24 6 26	53. 2 54. 3	-2.3 -0.8 -1.3	85 84 82 84	†24 †23 †29 23	25 25 25 23	19	47 55 48	2.50 4.11 3.30 5.34 3.23 3.75	-1.10 -0.5 +0.5 -0.9 -0.6	6 0.78 0.90 1 0.82 9 1.40 8 0.64		0 6 0 9 0 11 0 15 0 15	15	6 9 18 18	10	w.	E. W. Jeter.
Spartanburg	Spartanburg Edgefield Oconee Fairfield	. 878 . 629 . 106 . 54	5 51 0 35 1 28 5 34	49. 8 *56. 8 50. 6 52. 4	-1.6 +0.6 -0.9 -1.4	80 *88 85 <sup>b</sup> 82 82	†23 29 23 †23 †23	23 *29 19 *26 25	19	*46 50 50	4. 92 2. 79 5. 53 3. 24 3. 93	-0.5	4 0.59 5 1.50 0 0.89	2	0 9 0 9 0 15 0 16 0 16	9 3 15 14 0 8	6	1	7 sw 1 sw 9 nw	Rev. Oliver Johnson.
Division means an Section means an	extremes			. 52.6	3	88 88	29 29	19 19	1									7 1		

The departures from the normal temperature and precipitation are computed only for such stations as have temor more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. † Received too late to be included in means and summaries. \*\* Temperature days from observed readings of the dry buble; means are computed from observed readings of this dry buble; of the dry buble; means are computed from observed readings. Illustrations were as follows: of daston sloons; blacksharg; of Winthrop College, Rock Hill; of Ferguson, Entawville; of Casar's Head, Greenville; of Beaufort (near), Burton.

\*\*Trecipitation is less than 0.01 inch of rain or melted snow.

#### ERRATA.

Annual, 1927.—Charleston, annual precipitation departure, page 51, should be 22.21.
February, 1928.—Due West, noon relative humidity, Miscellaneous Data, page 5, should be 60; minimum temperature, 15th, page 8, should be 34. Caesar's Head, total precipitation, pages 6 and 7, should be 4.23. Calhoun Falls, greatest 24-hour precipitation, page 6, should be 1.35.

## Daily Precipitation for March, 1928.

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Except us otherwise indicated, observations are generally made late in the afternoon, near smiset, and precipitation recorded is for the 24 hours ending at the time of observation. M Precipitation measured in the morning; amount then recorded is for the preceding 24 hours, \*\*\* Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight. \* Precipitation included in the next following measurement. Isoparate dates of falls not recorded. T. Trace, or less than 0.01 included.

## COMPARATIVE DATA FOR MARCH.

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	Te	niperatu	re.	Precip	itution.	Averas	days.	ber of	iling direc- n.		Te	mperati	ne.	Precip	itation.	Avera	ge nun days.	ber of	ing irec.
Year.	Mean.	Highest	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di	Year.	Mean.	Highest.	Lowest.	Average.	Average tays with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di
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Orangeburg   Maximum   Maximum   Minimum   Minimum   Maximum   Maximum   Minimum   Min	5 66 15 17 33 36 59	58 6 50 8 65 6	5 30 1 6 8 4 3 4 3 4 8 2 0 5 0 5 0 6 6 0 6 6 0 6	2 61 5 41 1 59 1 44 7 63 8 41 8 41 9 57 22 36 22 4 4 46 2 56 0 47	38 52 34 57 40 58 40 66	36 66 37 69 34 70 41 68 40	68 35 66 40 62 37 70 40 65 45 73	68	68 41 70 47 67 43 73 54 68 48 72 50	76 40 52 45 46 41 60 52 57 45 64 51	64 41 57 44 64 41 58 52 60 44 62 49	72 43 73 52 71 44 70 52 70 46 72 52	75 50 76 53 70 46 80 54 73 54 79 54	46 . 64 . 53 . 62 . 47 . 70 . 57 . 60 . 52 . 75 . 58 .	73 56 57 47 72 56 75 58 73 59	65 45 46 41 54 54 68 45 64 54	52 36 51 36 58 41 55 38 57 40	53 29 52 26 58 38 54 32 57 32	57 25 54 30 56 25 57 33 55 32 57 35	31 55 37 55 27 58 39 55 38 65 39	28 70 29 69 29 70 30 70 34 71 31	83 40 81 48 83 29 84 40 83 52 84 51	47 81 46 80 44 77 51 80 54 81 47	61 78 52 63 52 71 55 75 56 76 53	52 80 55 78 58 80 57 78 58 79 56	73 54 77 55 64 53 70 58 72 59 74 59	71 39 73 40 68 36 74 42 72 42 74 42	85 45 85 49 82 36 83 50 84 50 84	65 80 65 80 50 82 67 78 62 81 63	468.9 441.0 67.4 43.8 71 64.0 64.0 64.0 66.6 68 66.9 88 46.5 68 69.8 46.2
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Greenwood / Minimum / Maximum / Maximum / Maximum / Minimum / Maximum / Maximum / Minimum /	87 61 47	55	57 32 	33 45 43 49 40	48 48 40 61 42	55 35 48	67	61	71	50 4 14 4 57 5 48 4	3 61 1 4: 6 6 1 4:	2 40	1 7	0 5	1 4	0 4	52 4	34 2 18 4 35 2 49 5 36 5 45 5		9 3 31 3 31 3 49 5 50 5	5 7	n 8	2 8	0 6		9 70	0 6	7 8	76	56 63.5 34 41.7 56 63.1 34 39.5
Landrum   Maximum   Minimum	46 60 40	35 57 32	29 63 25	55 41	58 34	50 36	67 29	- 1	75 45	61 5 44 4	3 6 4 4	3 3	7 5	4 4	- 1	55	54	52 5	28	55	35 8	34 3	3 7 6 4 9 7 9 5	7 6	18 8	0 7	1			
Laurens   Maximum   Mainmum   Mainmum   Maximum   Spartauburg   Maximum   Maximum   Maximum   Trenton   Maximum   Maximum	66 48 68 85 66 41 64 64 63	8 30 60 6 30 5 57 7 32 1 61 8 33 4 59 7 24 2 58 3 32	69 24 62 24	54 44 62 85 51 44 59 44 52 37 44 36	68 83 60 40 64 44 60 45 63 43	30 54 38 51 41 60 43 50 39 48 39	68 35 66 34 67 35 65 33 60 35 67 36 66 36	68 34 66 39 65 87 67 81 64 70 45	49 71 42 75 51 78 51 68 32	65 644 69 43 78 39 68 85 62 37 68 47	46 4 54 6 44 4 50 88 56 46 51	16 12 14 13 13 11	14 7 15 5 10 5 15 5 70 6	66 12 15 15 16 173 173 173 173 173 173 173 173 173 173	50 48 62 50 77 51 61	17 14 19 58 50 55 50 55 48	39 55 36 55 40 58 44 55	85 53 81 52 85 51 85 50 85 48 85 50 84 49	24 47 25 58 25 51 25 50 23 52 54 54 29	26 56 31 55 28 54 27 54 27	24 55 28	71 7 81 4 72 8 29 4 69 5 80 7 73 8 25	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	15 77 6 177 6 178 6 179 6 174 6 175 6 176 6 176 6 176 6 176 6	68 55	79 66 66 57 77 6 77 6 77 6 77 77 77 77 77 77 77 77 77 77 77 77 77	60 45 73 57	32 9 71 8 33 3 77 8 40 5	3 773 3 56 5 80 49 49 49 49 49 49 49 49 49 49	
Maxinum   Walhalla   Minimum   Maximum   Winusboro∳   Minimum   Winthrop College   Minimum   Minimum	6 3 6 3 6	4 57 8 27 4 54 7 32 1 55 2 31	60 32 62	37 59	61 35  60 88	43 59 35 51 60 35	33, 66 36 67 35	62 86 64 41 64 39	72 46 73 46	67	44 46 43 59	41 5?	41	52 68 46 70 55	45 58 49 67 46	43 58 50 55 46	39 44 40 49 38	21 50 25 48 34	19 51 26 50 25	54 28 54 28	55 35 53 32	70 32 71 30	45 82 44 82 48	78 54 76 58	64 56 73 54	78 56	60 54 73 43	33 69 87 78 84	82 7 42 5 80 8 50 8	3 55 63. 5 34 541. 0 60 64. 1 32 40

Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

% Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 4-26-28-900

#### U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol., XXXI. COLUMBIA, S. C., APRIL, 1928.

No. 4.

#### GENERAL SUMMARY.

The month was far down in the group of cool Aprils, and the average precipitation was the greatest of record for April

during the past 42 years.

The growing season opened with vegetation about one week backward. Wheat, oats, rye, white potatoes, truck, and grass berry, afternoon, 20th, damaged crops estimated at about crops improved during the month, and cereal crops began head\$1,000. About 7 a.m., 20th, a large barn at Fountain Inn ing toward the close. Considerable young cotton and corn were killed by frost, cold nights, and wet soil, with considerable replanting, which resulted in irregular stands; cotton chopping damaged residences, outbuses and crops along the Kershaw and corn cultivation were progressing in the more southern sections as the month closed, and about half the cotton crop had been planted. Tobacco transplanting, beginning about the 15th, was practically finished by May 1, when sweet potato

#### PRESSURE.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was 30.01 inches. The highest pressure was 30.51 inches at Charlotte and Wilmington, N. C., on the 3d, and in the Section proper, 30.47 inches at Columbia and Greenville on the same date; the lowest pressure was 29.40 inches at Charleston on the

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 42 stations, was  $59.9^{\circ}$ , or  $2.4^{\circ}$  below the normal. The highest temperature was 89° at Marion on the 3d. The warm periods were from the 2d to 7th and 19th to 22d, inclusive, when the daily mean temperatures ranged from 5° to 12° above normal. The lowest temperature was 28° at Cherokee (near), Spartanburg Water Works filter plant, on the The gool periods were from the 9th to 12th, 15th to 18th. and 26th to 30th, inclusive, with daily means ranging from  $5^{\circ}$ to 20° below normal.

#### HUMIDITY.

The mean relative humidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Seetion, was as follows: 8 a.m., 76%; noon, 56%; 8 p. m., 64%. The highest percentages occurred along the coast, and the lowest, in the interior.

#### PRECIPITATION.

The average for the Section, 53 stations reporting, was 6.40 inches, or 3.33 inches above normal, and the greatest April average of record. Precipitation ranged uniformly above the normal, but was very unevenly distributed. Rainfall was 7 to over 10 inches in an extensive area of the coastal plain and in small areas of the northwestern counties, while in large sections of the northern counties and along the lower coast the amounts ranged downward from 6 to less than 3 inches. There were four fairly well defined periods of rain. The greatest local

monthly amount was 10.65 inches at Camden; least local monthly amount, 2.54 inches at Charleston. The greatest amount during any 24 hours was 4.59 inches at Garnett on the

23d. The number of rainy days was 29% above normal.

There was no snow. Sleet occurred at Landrum on the 11th and 15th and at Walhalla on the 9th. Light hail occurred

at Camden on the 20th.

Killed and Injured by Lightning.—A negro man, about 10 miles north of Newberry, killed by lightning, afternoon, 20th. Mrs. S. D. Garrison injured by lightning at Gray Court, about

7 a.m., 20th.

Damage by Hail and Wind Squalls.—Heavy hail near Newwas fired by lightning, with loss approximating \$1,000. During the afternoon of the 20th, hail and heavy wind squalls and Sumter County line to the extent of about \$4.000.

The prevailing wind was from the southwest. The average transplanting began. Asparagus, cabbage, sugar peas, and native strawberries were harvested during the month. Tree fruits were in generally excellent condition. at Charleston; the lower overage velocity was 5.9 miles per hour at Charlotte, N. C., and in the Section proper, 7.6 miles per hour at Columbia. The highest velocity for any 5-minute period was 42 miles per hour from the southwest at Charleston on the 23d.

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 233.6 hours, or 60% of the possible amount. The average number of clear days was 15; partly eloudy, 5, and eloudy. 10, as against normals of 15, 8, and 7 days, respectively.

#### RIVER CONDITIONS.

The Santee River was in flood at Rimini on the 1st and 2d and after the 12th, and at Ferguson, on the 2d and 3d and after the 14th. Moderate freshets occurred in the Broad and Saluda Rivers about the 11-12th and again about the 16th. The Pee Dee River was in flood at Mars Bluff from the 15th to 19th, inclusive, and after the 25th. Fair stages occurred in the remaining streams.

#### MISCELLANEOUS DATA FOR APRIL, 1928.

	ses .		perati ees F		tio	ipita- n, hes.	Win		re	Mean dativ midi	re ty.	e of pos- is-tine.
Stations.	Barometer level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sibre suns
Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex. †	29, 98 30, 00 30, 02 30, 00 30, 01 30, 03 29, 99 30, 03 30, 03 30, 00	52.0 62.4 64.0 57.2 61.4 58.0 56.6 64.6 60.2	75 85 83 79 83 79 79 82 81	27 40 43 32 39 34 34 48 38	4, 53 6, 40 2, 54 5, 87 6, 39 5, 96 5, 66 4, 12 7, 19 5, 41	0. 99 3. 02 0. 94 1. 48 1. 75 1. 53 1. 28 1. 63 3. 24	9.8 6.5 11.1 5.9 7.6 9.9 9.5 12.2 8.2	se. s.	77 74 72 77 79 77 80 76 78	52 48 60 57 50 55 63 55 60	58 52 77 61 55 61 70 78	48 67 67 55 65 49 54 68 66

<sup>\* 3-</sup>cup anemometers used since January 1, 1928.

#### Climatological Data for April, 1928.

					Clir	natol	ogica	l Da	ta fo	r, Al	ril, 1	928.								
			record,	7	empera	ture,	in deg	rees F	ahr.		Precip	itation,	in inc	hes.	Num	ber o	of da	ays.	direction fud.	
Stations.	Counties.	Elevation, feet.	Length of re-	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	рате.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.01 in. or more)	Clear.	Partiy cloudy.	Cloudy.	Prevailing dire	Observers.
Eastern Partion.						1		1												
Beaufort (near) ‡‡ Black ville Charleston	BeaufortBarnwellCharlestonChesterfield	21 296 48 144	47 44 57 46	63.8 °65.4 64.0 59.4	$ \begin{array}{r} -1.5 \\ +1.0 \\ -0.5 \\ -2.3 \end{array} $	83 °87 83 81	24 2 25 † 4	39 °36 43 31	16 1 16 1	35 °40 25 48	3, 42 6, 32 2, 54 7, 00	$^{+1.06}_{+3.08}$ $^{+0.01}_{+3.95}$	1.12 3.05 0.94 1.24	0 0 0 0	7 7 9 10	13 14	13	 8 	s. sw.	Mrs. R. L. Fripp. Mrs. Margaret T. Sanders. U. S. Weather Bureau. Roland D. Powe.
Conway	Horry Darlington Florence Orangeburg	25 175 106 63	38 33 37 42	61. 8 60. 6 61. 4	-1.0 -1.6 -1.0	84 84 83	20 25 21	34 32 35	† 1 1 	47 41 41	7.31 4.10 8.07 8.15	+4.19 +0.81 +4.69 +5.19	1.80 1.04 2.77 3.15	0 0 0	12 8 10 8	15 18	0	15 11 	sw.	Paul Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Florencedo	136 136 82 18	46 13 10 35	61. 4 62. 6 59. 6	-1.4 -3.7 -4.1	81 87 87	26 21 20	34 36 31	1 1 1	37  48 54	6. 47 5. 37 8. 74 6. 77	+3.54 +2.44 +6.12 +3.47	1.74 1.91 4.59 3.10	0 0 0	10 9 9 6	15 19 18 25	7 3 3 3	8 9 2	sw.	H. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. A. P. Hazard.
Kingstree	Williamsburg Marion Florence Orangeburg Berkeley	92 264	46 3 5 12 81	62.8 61.8 **60.6 62.6	-0.6 -4.0 +0.4	83 89  85 82	† 2 3  21 21	32 33 *35 41	† 1 † 1 	51 45 	7. 49 6. 60 7. 51 6. 40 6. 25	+4.64 +4.69 +3.24	2.00 2.44 2.10 2.54 2.45	0 0 0 0	10 12 11 8 7	19 19 17	3 0 4	8 11  9	s. s. sw. nw.	Mrs. Ellen Scott. Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel.
Rimini Saciety Hill Summerville Wedgefield Yemassee		97 192 75 249	30	°56. 6 63. 1 62. 1 63. 0	-5.1 -0.7 -0.5 -1.1	*83 83 84 83	25 † 2 † 2 † 2 † 2	**30 **35 **35 **35	1 17 † 1 17	°41 86 46 47	6.30 7.53 6.31 7.15 7.24	+3.25 +4.07 +2.86 +4.06 +4.35	1.90 1.55 1.98 2.74 2.00	0 0 0 0	6 10 9 8 8	18 16 17 17	1 2 6 2	11 12 7 11	w. s. w. se.	Floyd C. Martin. F. D. Fields, Jr. Clemson Coast Exp. Sta. W. Hampton Ramsey W. C. Hutson.
Division means and				62.0	-1.0	89	3	30	1	54	6.50	+3.46	4. 59	0	9	18	3	9	sw.	
Western Portion.																				
Aiken Anderson Blairs Cresars Head‡‡ Calboun Fulls Cumden	Anderson Fairfield Greenville Abbeyille	764 293 3118 508	35 23 4	62.5 58.2 50.4 58.6 61.8	-0.8 -3.4 	88 82 74 82 87	22 25 2 2 2 24	38 33 30 35 33	29 16 †16 1	44 44 34 41 44	6, 20 5, 60 7, 01 7, 50 6, 95 10, 65	+3.00 +2.11 +4.17 +3.38 +7.54	2.01 1.26 1.00 1.85 1.74 2.40	0000	10 12 9 8	16 18 10 12	3 1 5 7	11	sw. w.	Frunk B. McCoy. H. H. Russell. Esther B. Owens. Cresn's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba	Spartanburg Chester	562 402 758 487 850 351	23 6 36	56.0 58.2 61.4	-1.7 -1.9	79 682 83	25 2 2 2	28 531 39	16 17	48 b51 33	5.34 6.65 4.65 5.75 6.39	+2, 11 +3, 71 +1, 82 +3, 53	1. 04 1. 40 1. 22 1. 24 1. 71		9 9	16 12 12	12 7	12 6 11		Immes C. Faris. George V Clamp. Spartanburg Water Works. J. C. Cornwell. Prof. F. H. H. Calhonn. U S. Weather Burean.
Crescent. Due West Edgefield †† Gaston Shoals 11. Greenville.	Spartanburg Abbeville Edgefield Cherokee Greenville	711 680 1039	2 14 14 25 44	58. 0 56. 6 58. 5	-2.9 -2.0 -2.7	79 79 81	2	34  34 38	16 16 16	30	5. 96 5. 96 6. 81 5. 32 5. 66 6. 20	+3,73 +3,15 +1,69 +1,88 +3,13	2. 10 1. 18 1. 28	(	10 7 12 12	 8  7 18	10	14	ne.	Broad River Power Co. U. S. W. B. Aerological Sta. Agent C. and W. C. Ry. S. C. Lt., Power & Ry. Co. U. S. Weather Bureau. M. M. Calhoim.
Greenwood Henth Springs Hogback Mountain Kershaw Landrum Laurens	Lancaster	568 3025 500 1068	26 2 12 13	57. 1 60. 2 56. 6 59. 1	-3.6 -2.5 -3.4 -1.2	80 81 80 83		36 34 33 33		38 47 47	7. 34 6. 40 5. 21 7. 21	+4.09 +2.78 +0.22 +3.56	2.00 1.14 1.18		12	12 10 11 13	3  1 9	19 10	e.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Hamel. R. Hurtwell Wilds, D.D.S. L. G. Roff.
Little Mountain. Lockhart†† Newberry l'elzer Sainda Santnek	Newberry Union Newberry Anderson Saluda	711 . 336 . 502 . 850	35 3 2 2 24 2 24 3 26	58. 4 59. 8 59. 6 57. 4	-3. 4 -2.8 -2.8 -3. 1	85 82 79 82	† 2 † 12	34 34 33 29	i	48	6.30 6.09 5.74 6.06 6.12 7.01	+2.94 +2.56 +2.04 +3.12 +3.69	1.20 1.52 1.26			18 18 11 12	3 13 6	9	w.	Miss Alberta Sease. Broad River Power Co. John H. Baxter. Joshun Y. Jones. W. S. Crout. E. W. Jeter.
Spartanburg Trenton Walhalla Winnsboro Winthrop College ‡‡	Spartanburg Edgefield Oconee Fairfield York	. 1061 . 54f	35 1 28 5 34 0 28	56.0 *61.9 56.0 *59.7 57.8	-4.3 -1.0 -2.8 +0.3 -3.1	81 81 81	† 2 25 2 24	87 29 31 31	16 1 1 1 16	*47 44 *39 43	5. 70 7. 52 5. 51 6. 60 5. 30	1	1.66 1.04 1.29 1.30		0 10	7	7 9 8 16	8 7	SW. SW S.	M. H. Daniel. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division means and Section means and	IV.			58.3	-2.8 -2.4						6.32				0 10		5			

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, by represents two days missing, etc. † Also on other dates. † Received too into to be included in means and summaries. \* Temperature data are from observed readings of the day bulb; means are computed from observed readings. It Post-office addresses of these stations are as follows: 6 (featent shouls, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawville; of Cesar's Head, Greenville; of Beaufort (near), Burton. The Precipitation is less than 0.01 inch of rain or melted snow.

#### ERRATA.

March, 1928.—Pinopolis, mean temperature, page 10, should be 56.3. Columbia, greatest 24-hour precipitation, page 10, should be 0.69.

Daily Precipitation for April, 1928.

Name of the last o																																	
															1	ay (	of m	onth	).														
Stations.	Drainage- bastus.	1	2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	lъ	19	20	21	22	28	21	25	26	27	28	29	20	31	Total
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Oarlington	Pee Dee Lynches Suntee Pee Dee								. 17 T.		1, 40 1, 67 . 87 1, 18	. 45 . 72 . 48 . 98	.25 .19 .09			.23 .69 .05	1. 04 1. 04 . 98					. 62		2.77 2.01 1.74	. 40 . 60 3. 15		. 08		. 30				4. 10 8. 07 8. 15 6. 47 5. 37
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atawba       appells       kerokee (near)  hester  lenson College  columbia ***	Catawba Salada Broad do Savatanah Cougaree							. 20		.18 .08	1. 10 1.22	.78 .73	. 16		T.	.54	. 32				.32	:::	.42	.66									5. 34 6. 65 4. 65 5. 75 6. 39
rescent.  The West*** digorield     aston Shoats     reenville *** weenwood	Enorce						T.	. 33	1. 39	.78	. 58 . 76 1. 10 1. 18 . 92 . 97	. 46 1, 20 . 41 . 69 . 60	.20 .63		.08	1.50	1 99				.54 .08	. 38	. 57 . 47 . 59	. 66 2. 10	. 07	т		. 15 . 79 . 32 . 96	. 57		T.		5, 96 5, 96 6, 81 5, 32 5, 66 6, 20
lenth Springs logback Mountain ershaw     androna autrens	Wateree Broad Lyuches Broad Saluda						т.	.39		.52	. 83 . 51 1. 26	. 80	. 50		. 02	. 93 . 36 . 38	. 75				1.09		.32	1. 14 . 41 . 66	. 04	• • •	.13	1.18	. 94				7. 34 6. 40 5. 21 7. 21
ittle Mountain Ockhart -ewherry elzer      a Inda antack	Sahidadododo							. 20 . 16 . 04 . 07 .	. 17	T.	1. 20 1. 20 1. 13 1. 26 1. 30 1. 70		. 07		. 22	. 18 . 18 . 52 . 36 . 44 . 28	. 52				. 37 . 60 . 44 . 51		.25	. 55 . 66 1. 04 . 44	. 65			1.18 .20 .89	.60				6 30 6, 69 5, 74 6, 06 6, 12 7, 01
partauburg      reutou /alballa /imisboro      /inthrop College										T. 10	1, 15 1 1, 20 1 , 90 , 70 1, 30 1	.71	.38		T. 1	.75 .11 .80	.75				. 01	. 61	.51	. 76 . 76	. 03	• • • •	)	1.04					5, 70 7, 52 5, 51 6, 60 5, 30

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ## Regular Mine Metalter Bureau station; precipitation is for the preceding 24 hours \*\*\* Regular Mine Regular Bureau station; precipitation is for the observation, which is to individue to receive the metal following measurement so falls not recorded. Three, or less than 501 lineh.

#### COMPARATIVE DATA FOR APRIL.

										TALL TOIL I	11 2011								
	Te	urperatu	ire.	Precip	itation.		e num days.	ber of	ling lirec- n.		Te	mperatu	re.	Precip	itation.	Averag	e num days.	ber of	ing irec-
Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly eloudy.	Cloudy.	Prevaili wind din	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevaili wind di
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Daily	Temperatures	for	April,	1928.	
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							D	aily	Ter	тре	rat	ures	fo	r A	pril	, 1	928															
Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
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Reference letters (\*, b, \*), appearing in the table indicate number of days missing; for example, \* represents two days missing, etc.

1. Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 5-22 28-900

THE LIBHARY OF THE

U, S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief,

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

VOL. XXXI

COLUMBIA, S. C., MAY, 1928.

No. 5.

#### GENERAL SUMMARY.

prolonged periods of relatively low temperatures. Precipitation averaged much above normal and was badly distributed.

The generally cool, wet weather was favorable for growth of winter cereals, white potatoes, sweet potatoes, tobacco, truck, and grasses. However, the cool, raw weather at intervals killed much young cotton and corn, which necessitated quite general toward the middle of the month, and early corn with no serious damage. was being cultivated. Asparagus, eabbage, and other spring truck were harvested relatively in season. Small grains maintained fair to good condition, and oat harvest began in the more southern sections soon after the 15th. Tobacco transplanting was practically finished during the opening week, and sweet potato transplanting began. Native strawberries were plentiful throughout the month, and tree fruits were in genabundant as the month closed.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 41 stations, was  $67.7^{\circ}$ , or  $3.2^{\circ}$  below the normal. The highest temperature was  $94^{\circ}$  at Camden on the i8th and 19th and at Blackville, Ferguson, Garnett, Marion, and Orangeburg on the 19th. There were two short warm periods, i.e., 2d to 5th and on the 18th and 19th, with daily mean temperatures ranging from 5° to 10° above normal. The lowest temeloudy, 7, and cloudy, 8, as against normals of 16, 9, and 6 perature was 40° at Little Mountain on the 9th. The cool pe-days, respectively. riods were generally from the 6th to the 16th and 23d to 30th. when the daily mean temperatures ranged from  $5^{\circ}$  to  $22^{\circ}$  below normal.

#### HUMIDITY.

tion, was as follows: 8 a.m., 75%; noon, 52%; 8 p. m., 63%. The highest percentages occurred along the coast, and the lowest, in the interior.

#### PRECIPITATION.

The average for the Section, 54 stations reporting, was 5.22 inches, or 1.65 inches above normal. Rainfall occurred in two periods during the first half of the month and in most sections on practically every day after the 20th. Precipitation was badly distributed in area and amounts; in the northeastern and northwestern districts and in large areas of the central counties, the amounts ranged from 4 to nearly 9 inches, while along the lower coast from Charleston County to the Sayannah River, the measurements ranged below 2 inches. The greatest local monthly amount was 8.87 inches at Clemson College; least local monthly amount, 1.05 inches at Charleston. The greatest amount during any 24 hours was 3.85 inches at Blairs

on the 23d. The number of rainy days averaged 12% above normal

Killed by Lightning .- Charlie B. Poole, 9-year-old son of Mr. L. H. Poole, in Bellevue Section, near Traveler's Rest, afternoon, 25th. Mr. Lum White, planter, near York, 26th. Lois Cooper, 11-year-old daughter of Mr. B. D. Cooper, in Holly Springs section, near Spartanburg, morning, 28th.

Hailstorms and Damage by Lightning. - A rather severe hail-The month was considerably cooler than usual, with two storm 7 miles southeast of Due West on May 23 damaged crops approximating \$1,000; the path was 6 miles long and about a mile wide; most of the hailstones were about the size of large peas. On May 23, the barn of Mr. C. E. Wheeler, near Little Mountain, was fired by lightning and burned; damage estimated at about \$500. During a hailstorm near Sedalia on May 24, many of the hailstones were one and three-fourths inches much replanting, and, consequently, these crops were in all in diameter, but no serious damage resulted. A moderate hail-stages of growth as the month closed; cotton chopping became storm occurred about 5 miles east of Mt. Pleasant on May 29,

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was 7.1 miles. The highest average velocity was 10.8 miles per hour at Savannah, Ga., and in the Section proper, 9.9 miles per hour erally excellent condition. Vegetables of all kinds were at Charleston; the lowest average velocity was 4.1 miles per hour at Charlotte, N. C., and in the Section proper, 5.2 miles per hour at Columbia. The highest velocity for any 5-minute period was 36 miles per hour from the northeast at Due West on the 7th.

#### SUNSHINE AND CLOUDINESS.

The average monthly synshine, determined from 9 automatic records, was 267.8 hours, or 64% of the possible

#### RIVER CONDITIONS.

Freshets occurred in the up-State streams progressively from the 7th to the 10th and again from the 23d to the 25th, The Santee River was near or above flood stages at The mean relative humidity, determined from reports of 9 Rimini and Ferguson throughout the month. The Pee Dee regular Weather Bureau stations in and surrounding the Sec- River at Mars Bluff was in flood during the first half of the month and again from the 26th to the 28th, inclusive.

MISCELLANEOUS	DATA	FOR MAY	, 1928.

		, sea		perati ees Fi		tio	ipita- 11. hes.	Win		re	Mean Platin midi	ve	e of pos-
	Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible sunsi
The second secon	Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex-J	29, 93 29, 94 29, 94 29, 95 29, 94 29, 98 29, 94 29, 95 29, 94	60.4 70.4 71.0 67.2 69.3 66.6 66.8 70.6 67.8	86 92 89 92 91 89 87 90 89	38 47 49 43 46 45 44 48 46	5. 53 6. 37 1. 05 4. 05 5. 33 6. 42 4. 47 1. 23 3. 18	2.33 2.30 0.67 1.57 2.29 1.92 2.46 1.06 2.03	* 6, 1 5, 3 9, 9 4, 1 5, 2 7, 8 7, 8 10, 8 6, 5	nw nw. sw. sw. sw. sw. sw.	80 75 73 77 74 74 72 76 77	48 47 62 51 53 47 51 54 55	58 54 76 66 55 58 68 74	57 65 62 67 62 60 71 63 65
	tremes	29 95	67.8	92	38	4.18	2.46	7.1	SW	75	52	63	64

<sup>\*3-</sup>cup anemometers used since January 1, 1928.

					Cli	mato	logica	al Da	ita f	or M	ay, 19	928.								
		ŀ	record,	7	Tempera	ature,	in degr	rees F	ahr.		Precip	itation.	in ine	hes.	Num	ber o	of da	ys.	rtion .	
Stations.	Counties.	on, feet	Length of re-	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	With precipit on (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing director of wind.	Observers.
Eastern Portion,	1																П			
Blackville	Beaufort Barnwell Charleston Chesterneld	21 296 48 144	47 44 57 46	470. 9 70. 2 71. 0 67. 4	$ \begin{array}{r} -2.5 \\ -2.8 \\ -1.7 \\ -3.1 \end{array} $	492 94 89 92	29 19 29 19	42 49 44	16 8 9 8	436 45 27 44	2.24 5.26 1.05 4.96	-1.04 +1.58 -1.95 +1.35	0.78 2.83 0.67 2.41	0 0 0	5 10 9 6	10	14	4	s. sw.	Mrs. R. L. Fripp. Mrs. Margaret T. Sanders. U. S. Weather Bureau. Roland D. Powe.
Conway Darlington†† Effingham Ferguson‡‡	Horry	25 175 106 63	38 33 37 42	68.8 67.6	-1.8 -3.1 -2.6	92 91 94	19 19 19	44 44 45	10 10 10	46 39 	6. 70 4. 43 6. 08 5. 31	+3,60 +0,77 +2,43 +1,24	2.38 2.38 2.25 1.96	0 0 0 0	12 8 9 11	17 14 	0 1 	14 16		Paul Quattlebann. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Florencedo	136 136 82 18	46 13 10 35	68. 4 70.0 68. 8	-3.6 -1.9 -3.1	92  94 91	5 19 †12	46 46 42	† 8	41  45 47	7. 00 6. 12 4. 16 1. 90	$^{+2.98}_{+2.10}_{-0.56}_{-1.79}$	2. 28 2. 30 1. 25 0. 90	0 0 0	10 7 11 4	14 19 19 22	10 7 8 5	7 5 4 4	sw. s.	H. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. A. P. Hazard.
Kingstree	Williamsburg Marion Florence Orangeburg	92	46 3 5 12 81	68.8 68.6 67.0 66.5	-2.8 -3.3 -3.5	92 94  94 87	19 19 19 19	46 44  45 58	10 10 8 †11	48 46 40	3.69 7.65 7.96 5.37 3.14	+0.32 +1.18 -0.55	1.00 2.08 2.50 3.15 0.80	0 0 0 0 5	10 10	20 23  13 11	4 1  9 15	7 7  9 5	s. se. sw.	Mrs. Ellen Seott. Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Raveuel.
Rimini Society Hill Summerville Wedgefield	Sumter	97 192 75	14 37 30 38 39	65. 8 69. 5 69. 4 69. 6	-4.7 -2.1 -1.7 -2.6	91 92 90 91	† 4 19 † 5	44 45 44 46	† 8 †14 8	39 41 38 44	2.68 4.47 2.06 3.83 2.59	-1.71 +0.89 -1.58 +0.50 -1.25	0.75 2.25 0.33 1.80 0.65	0 0 0 0 0	10	23 12 19 14	6 7 5	4 13 5 12	w. sw. w.	Floyd C. Martin, E. D. Fields, Jr. Clemson Coast Exp. Sta. W. Hampton Ramsey W. C. Hutson.
Yemassee				68.7	-3.1	94	19	42	8	47	4.49	+1.00	3.15	0		17	6	8	sw.	
Western Portion,																				
Aiken Anderson Blairs Cusars Head‡‡ Calloun Falls Canden	Fairfield	527 764 293 3118 508 222	66 35 23 4 29 78	69.4 67.2 68.0 69.8	-2.3 -2.6  +0.2	90 88  90 91	11 † 4	45 44 47 44	8 8  † 7 † 8	40 39 42 43	6.74 7.91 7.49 5.71 5.40 4.87	+3.16 +4.61 +4.34 +1.42 +1.66	1. 67 3. 85 1. 46 1. 80		8 12 6		8	10		Frank B. McCoy. H. H. Russell. Esther B. Owens. Cresar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba Chappells. Cherokee (near) Chester Clenson College Columbia	York Newberry Spartanburg Chester Oconee	562 402 758 487	22 23  6 36 42	64. 6 66. 0 69. 3	-2.5 -2.5	90 89 91	11 4	41 44 46	13 † 2 8	46	8. 64 8. 47 4. 20 8. 87 5. 33	-0.14 +5.43  +4,92 +2,14	2.05 1.76 2.70		110	21 11 10	4 15 10	6 5 11	SW.	James C. Faris. George V Claup. Spartanburg Water Works J. C. Cornwell. Prof. F. H. H. Calhoun. U S. Weather Bureau.
Crescent. Due West Edgefield†† Gaston Shoals !! Greenwille. Greenwood	Spartanburg Abbeville Edgetield	680 1039	2 14 14 14 25 44 44	66. 6 66. 8 67. 6	-0.4 -2.8	89 87 88	19 11 † 6	45 44 45	+ 7	29	4. 70 6. 42 5. 99 6. 21 4. 47 6. 68	+2.57 +2.79 +2.60 +0.16 +2.94	1.72 1.29 2.46			8	6  12 0		 sw.	Broad River Power Co. U. S. W. B. Aerological Sts Agent C. and W. C. Ry. S. C. Lt., Power & Ry. Co. U. S. Weather Bureau. M. M. Calhonn.
Heath Springs Hogback Mountain Kershaw Landrum Laurens	Lancaster	3025 500 1063	12	66.2 68.2 65.7 67.8	-0.9	92 90 91	5	44 45 44 *45	14 † 8	46	3.68 4.78 4.96 7.50	+0.48 +1.36 -1.45 +3.96	1.72		0 9 0 9 0 15 0 10	14 17	5  7 7	10	w. nw.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Hamet. R. Hartwell Wilds, D.D.S L. G. Roff.
Little Mountain Lockhart†† Newberry Pelzer Saludu Santuck	Newberry	711 336 502 850 536	35 2 24 24	65.8 68.0 66.2 68.1	-5. 4 -2. 6	90 90 85 90	19	40		42	6, 66 3, 43 6, 20 6, 09 8, 86 5, 34	+3.57 +2.57 +1.88 +6.20 +2.04	1. 40 1. 60 1. 70 3. 19 4. 2. 00		0 8 0 8 0 7 0 13 0 11 0 10	18 10 15	18	5	w.	Miss Alberta Sease. Broad River Power Co. John H. Baxter. Joshna Y. Jones. W. S. Cront. E. W. Jeter.
Spartanburg Trenton Walhalla Winnsboro Winthrop College ‡‡.	Spartanburg Edgefield Oconee Fairtield	. 620 . 1061 . 545	35 28 34	64.8 69.8 64.9 *68.2 67.4	$ \begin{array}{c c} -2.0 \\ -1.9 \\ -2.4 \end{array} $	89	11 11 19	42 45 42 °45 43	† 1 s	43 4 46 8 *32	4, 45 5, 17 5, 31 4, 06 3, 46	+0.35 +1.95 +1.15 +0.71 -0.75	1.35 7 1.86 1 1.26 5 1.78	5	0 9 0 9 0 15 0 8	12 16 16 14 13	15	8 8	sw. sw s.	. M. H. Daniel. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
	extremes			67. 7		94			y .	9 46	5. 72 5. 22	1			0 10					

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, by represents two days missing, etc. † Also on other dates. †† Received too late to be included in means and summaries. \*\* Temperature data are from observed readings of the day line, means are computed from observed readings. ‡Post-office addresses of these stations are as follows: Off caston sides. Hackstoring; of Windrop College, Rock Hill; of Ferguson, Entawville; of Cesar's Head, Greenville; of Beaufort (near), Burton. \*\* Precipitation is less than 0.01 inch of rain or melted snow.

#### ERRATA.

April, 1928.—Clemson College, lowest temperature, page 14, should be 30 on the 16th. Darlington, greatest 24-hour precipitation, page 14, should be 1.40. Laurens, monthly mean temperature and prevailing wind direction, page 14, should be 58.8 and sw. Spartanburg, date of highest temperature, page 14, should be 25th.

Daily Precipitation for May, 1928.

								200			CLI	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	tioi	10.	1 1/1	uy,	10	20.															
Stations.	Drainage-															Day	of n	ont	h.														
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Darlington ## Effingham ## Ferguson ##	Pee Dee Lynches		. 09				.25	2.38 .10	.01 2.25												.28	27	J	. 26 1. 45	. 90 1.31				. 10	T.	. 28		4, 43 6, 08 5, 31
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Western Portion. Alken. Anderson Bhirs	Sayaumih Broad Saluda	. 13					.78	1, 06 . 60	. 52	. 57								.03		65	. 18	. 49	1.67 T.	1. 47 - 68 - 60 - 14	. 54			Ť.	. 32	.09	.31		6.74 7.91 7.49 5.71
Cicinden III	Wateree			• • • •				.25	. 05	. 20								,			2.00			. 75	. 40						.22		5.40 4.87
Chappells      Chappells      Cherokee (near) Chester	Committee	. 02						. 13	. 02												. 35	!	2, 05	T .92 .09	. 44	т.	. 10	.18	. 10 . 08 . 17	. 60	.37		3.64 8.47 4.20
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Crescent. Due West*** Edgefield	Enoree	.01				1	. 00 1	. 42 . 72 1 . 98	. 68 . 10	. 76								.04	.11	.74	.05	T.	.71	1.46	. 65	T.		T.	. 19	10	. 13		4.70 6.42 5.99 6.21
Guston Shonls    Greenville   Greenwood       Heath Springs	Wateree	ng.						501	60									0.0				- 1											4. 47 6. 68
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Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ## Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight. \* Precipitation included in the next following measurement. ISeparate dates of falls not recorded. T. Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR MAY

1857   72.5   97   41   3.17   10   1900   66.5   100   35   4.26   8   14   12   5   8   3   18   18   19   18   18   18   18   18		,						COM	MAAA.	LI ATE 1	DATA FOR	MAY.								
1887		Те	mperatu	re.	Precip			e num days.	ber of	Los Fi		Te	mperatu	re.	Precip	itation.	Averag	e num days.	ber of	ing irec-
1887	Year.	Mean.	lighe	<u> </u>		n-yell	Clear.	Partly cloudy.	Cloudy.	reva wind	Year.	Mean.	Highest.	Lowest.	ve	Average lays with 0.01 inch or more.	Clear.	Partly cloudy.	ond	Fi
1908	1848 1849 1860 1860 1860 1860 1860 1860 1860 1860	70. 2 71. 7 71. 0 69. 0 71. 1 70. 2 70. 7 69. 0 76. 7 76. 3 73. 8 73. 7 70. 2 71. 4 74. 0 75. 6 75. 6 76. 7	99 101 95 100 94 97 98 101 104 97 106 100 96 99 101 104	33 35 36 39 38 38 38 34 42 28 40 42 44 44 38	7, 51 1, 97 5, 44 3, 57 3, 53 4, 13 4, 36 2, 74 1, 35 1, 68 2, 7, 31 2, 69 2, 69 2, 04 5, 70 3, 00 4, 51	9 9 9 9 8 6 5 5 5 5 11 8 9 9 7 133 7 10	13 10 11 14 18 18 18 15 19 13 15 12 18 12 17 11	9 16 12 13 8 10 10 7 10 10 9 8 9 6	5 8 4 5 3 6 5 8 6 10	HW. SW. Ne. SW. SW. SW. SW. SW. SW. SW. SW. SW. SW	1910 1911 1912 1913 1914 1915 1916 1916 1917 1918 1919 1920 1922 1922 1923 1924 1925 1926	69. 8 72. 6 72. 4 71. 7 72. 1 73. 0 73. 8 66. 3 72. 6 71. 0 68. 0 68. 0 68. 0 68. 3 70. 6 71. 4 67. 7	99 106 101 101 105 98 103 98 100 96 94 98 98 98 99 100 103 103	40 35 43 38 42 46 42 31 31 32 42 36 38 33 33 33 38 40 40 40 40 40 40 40 40 40 40 40 40 40	4. 03 0. 65 4. 08 2. 13 0. 83 7. 20 2. 44 3. 09 3. 48 5. 23 1. 77 5. 30 6. 44 4. 43 2. 18 1. 92 5. 22	8 8 8 8 8 3 9 9 6 6 3 111 6 6 10 12 12 12 9 6 6 5 4 9 9	15 20 16 19 18 11 20 18 19 12 12 12 12 17 19 18 16 16	10 86 66 10 11 7 7 7 8 11 9 9 10 8 7 7 7 7 7 7 7 7 7	11 12 7 5 4 4 8	SW. ne. sw. sw. sw. sw. sw. sw. sw. se. e. w. w. se. e. w. w. sw. sw.

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Garnett Minimum	55	85 50 81	5 5	1 54 6 89 1 50 3 8 0 49 4 8	54 91 54 84 53 87 87	51 80 58 83 57 76	49 74	47 70	47 65	46 81 43	52 90	63 91	57 55	49 80 50 74 45 73 50	54 78	55 80	59 82	62 90 57 86	94 65 92 63 92 68	65 88	81 66 81 60 80 65	85 60	80 61	81 8 60 8 78 8 56 76 63	50 87	61 87	55 8 57 6	66 9 65 6	91 8	9 9 5	83.0 54.6
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Society Hill \$\\   Maximum	71 54	8 5	1 8	3 9 16 5	1 91 2 52	73 58	58 51	50 44	68	81 45	49 58 45 92 51 88	59 78 56 88 58 58	57 75	51 75	51 75	50 78	55	56	65 92	65 85	84 63 80	84 60 87 64	60 79	59 92	51 88	54 90	53 76	56 84	56 8 89 8	8 5 6 8	8 54.1 6 81.3
Summerville [6]   Maximum   Minimum   Minimum   Maximum   Maximum   Maximum	78 60	8 5 5 8 5 5 8 5 5 5 5 5 5 5 5 5 5 5 5 5	3 6	83 8 52 5 85 8 58 5	8 89 1 53 8 90 6 60	76 59 82 62 79 58	51 65	49 57	47 70	81 45 83 45 84 52 84 46	51 88	58 80	57 74	45 75	50 75	52 78	80 55 83 59 82 59 82	60 88 63	67 90	66 83	80 66 80 65	64 83	64 75	63 78	54 88 51 88 60 83 57 57	54 90 56 82 64 86	59 84	69 82	71 6 84 8	9 6	6 81.8 2 57.7 5 80.6 2 58.1
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Clemson College / Minimum	.1 5	5.	44 81 54	85	17 5 91 9	7 8 2 5 0 7: 3 5- 46 6! 68 4	46 2 5- 4 48 5 50	55 43 4 49 4 49	47 71	8-	89	59 78 69 69	74 55 75 75 75 75 75 75 75 75 75 75 75 75	78 2 44 5 74 4 52 7 78 1 50 2 71 1 58	78 54 75 55 71 58 78	77 53 79 60	75 59 78 62 77 62 74 61	63 88 65	68	66	83 62	78	74 62	79 52 78 62	49 85 57 82 54 82 55	82 66	50 86 58 88	81 57 83 62 82 60 80 58	51 84 68 77 59 74	82 58 84 62 81 60	81 79.0 56 53.0 86 79.6 63 59.0 81 77.2 58 56.1
Due West Minimum Maximum Minimum	. 6	18	54 80	52 84	61 6 88 8	3 5- 6 6 8 4	50	18	48	8 4	8	763 51	6 75 8 5	78	71 58	77 58 75 58	77 62	65 65 85	89 64 86	78 62	80 61	79 56	74 62 68 58 74 61	78 59	82 54	82 66 78 63 78 59	56	82 60	77 59	81 60	81 77. 2 58 56. 1
Greenville Maximum .  Minimum .  Minimum .		18 18 16 56	80 54 80 59	84 54 85 61	88 8 55 8 87 8	6 6	41	18 5 49 9 5 4 48	75 45 75 48 75 48 75 48 75 48	8 5	8'	7 7	5 73	2 71 1 58	78 56	75 58	74 61	8! 63	86	62	80 61	75 63	61	80 60		59	56 80 57	58	- 1		82 76.7 61 57.0
Maximum.				83	86	10 8		1				1 8		1 80	77	77	79	80	87	82	80	83	81 61	68 57	80 52 79 55	83 60	79 57	84 60	84 59	79 59 74 58	83 78.9 59 56.4 81 76.1
Greenwood / Minimum / Maximum / Minimum / Maximum / Minimum		77 55 75 58	79 50 76 52	51 82 56	57	50 5	8 4 7 5 8 4	5 4 3 4 7 4	5 4 6 6 4 4	2 7 5 4 7 8 5 5	8 8 5 5 1 8 6 6 6	3 66 5 7: 2 6:	8 8 0 5 5 7 2 4	1 80 9 49 0 7 8 4	55 74 55	7 77 8 57 4 75 7 59	79 60 85 63	64 81 68	67 79 64	67 79 6	62 82 62	62 71 61	81 61 75 61	68 57 75 58	79 55	60 79 56	79 57 82 55	60 79 57	59 81 61	74 58	59 56.4 81 76.1 51 56.4
. Maximum.			52	56	59	50 4	4		4																		-			81	85 80.8
Kershaw Minimum Minimum		78 50	82 52 80	88	91	92 7 58 5	5 6 8 4 1 5	8 4 9 4	5 4	1 8 5 4	5 9 8 5	5 5	6 4	5 7 6 4 5 7 4 4	7 4 1 7 1 5	7 79 6 56 5 75 2 55	79 59 75 57	6: 8:	91 3 69	6-	84 62 80 57	85 61	77 61 75 60	77 57 78 56	86 57 82 55	81 58 74 56	87 58 78 55	84 54 81	82 62 72 54	59 79 51	85 80.8 59 55.7 83 78.0 56 53.4
Landrum Maximum . Minimum		78 59 77 55	80 51	50 85 45	91 57 90 61	92 7 58 5 89 8 54 4	1 5 9 4	8 4 9 4 0 5 7 4	5 4 2 7 4 4	5 8	8 5 8 8 6 5	9 8 6 6			1	1			3 65	60	1					- 1		52	- 2		
Laurens   Muximum   Minimum		80	82	87		88 7 54 5	5 5	2 4	9 7	5 8	4 8 6 5	9 8	0 7	5 7 60 4 12 7 18 4	5 7. 5 5. 7 7 8 4 7 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	5	79 56	8 6	9 91	6 6	0 89 2 61 3 81	82 61	78 59 76 58 71 59 75 58	80 57	84 53 84 54 84 54 81 52 76 48	81 64 81 59 81 62 82 64 68 57	84 52 83 55 85 54 78 52 70 50	83 59	80 59 80 73 82 61 83 63 70 56	82 59 83 58 83 61 82 60 73 55	85 *79.1 56 *54.5 84 77.5 58 54.1 58 54.5 84 \$0.0 58 56.8 82 78.5 57 55.83 53 52.
Little Monutain Maximum .		59 59 81 60 77 59	49 80 50 82	48 66 54	90 54 89 54	54 5 89 7 60 5	5 5 2 4 7 5 7 4 9 5	6 4 57 4 14 4 57 5	5 4 6 2 4 6 7 6 6 7 6 6 7 6 6 7 6 7 6 7 6 7 6 7	5 8 4 50 7 5 6 6 7 6 8 6 6 7 6 8 6 6 6 6 6 6 6 6 6 6	5 4	1 6 0 6 6 4	2 7 17 4	2 7	8 4	3 80 9 56	64	6	4 66 9 82 1 59 8 96 3 66 2 83	5 5	3 81 9 59	59	58	57 79 52 80 59 78	54	59	55 85	58	73 82	58 83	58 54.5 84 90.0
Newberry Maximum		81 60	50	87 48	89 55	60 5 88 6 57 5	9 5	7 5 6 4	5 4	5 8	31 9	10 8 15 5 15 8	9 4	6 7	7 5	2 59	75	2 6	3 66	6 6	3 69	60	59 75	59 78	54 81	62	54 78	59 83	61 83	61 82	58 5€. 82 78.
Saluda		77 59	79 46	54 87 48 85 46 72 43	89 55 85 52 90 47	57 5 85 8 55 8 51 5	17 4 15 6 17 4 16 5	16 4 12 5 16 4 13 5	0 7 5 4 50 7	16	2   8  5   5  9   7  2   4	55 8 52 5 6 5 18 5	0 77 12 5 12 7 17 4 19 7 19 7 19 4 19 7 19 4 19 7 19 4 19 7 19 4 19 4 19 4 19 4 19 4 19 4 19 4 19 4	12 7 18 4 16 76 78 78 78 78 78 19 4 19 4 19 4 19 4 19 4 19 4 19 4 19	4 5	3 80 9 56 5 80 5 57 6 56 7 61 6 61	7 6	2 8	5 6 7 7 3 6	6 65 86 86 86 87 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1 85 3 65 1 75 4 65 3 75 5 55	61 83 59 58 60 75 61 74 8	58 73 61	59 79 56	52 76	64 68	52 70	59 84 58 84 59 83 58 76 57	63	60 73	57 55. 83 73.
Sautuck / Maximum .		78 58	46 73 54	72 43	90 47	51	3 4	- 1	- 3		- 1	- 1		12 4		1				1		ļ					- 1	- 1	- 1		
Spartanburg Maximum		85 55	82	84 46	85 50	80 52	35 5 58 4	15 5	50	75	6 8	86 5 45 5	50	72 7 49 5 80 8 58 5 76 7 49 4	0 7 4 5 8 8 7 5 4 7	74 7: 52 5. 34 8. 53 5. 73 7: 76 7: 49 5.	6 7 6 8 8 7 7 7 7 7 9 7 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1 6	4 8 1 6 10 8	2 6	6 8 1 5 2 8 5 6 8 8 8 8	7 61	75 60 69 59 79 57 75	74 55 78 59 81 50 77 58 85 51	48 85	80 51 83 64 79 56 81 58 78	81 49 86 57 81 47 85 55 80	82 54 84	75 50 83 65 74 57 82 61 80	81 54 83 61 83 52 81 59 80 57	82 77. 54 52. 83 81. 61 58. 82 78. 55 51. 85 *79. 61 *57. 84 80
Trenton / Maximum / Minimum		81	48 80 51	87 52 84	90	61	58 4 79 4	54 5 45 4 59 4 46 5 52 5 45 5	14 18 15 15 14	75 14 73 17 75 46	6 8 12 39 19 32	45 92 81 89	84 8 63 80	58 5	7 5	44 8 53 5	7 5	8 6	10 8 14 6 15 8	2 6 9 8 4 6 50 5 6 6 6 6	2 8 5 6 8 8 8 5	5 64	59	59 81	48 85 59 85 48 84 54 57 55	64	57 81	6? 82	65 74	61 83	83 81. 61 58. 82 78. 55 51. 85 79. 61 *57. 84 80 58 54.
Walhalla Maximum .		79 51	51 80 43	84 49	46	89 61 87 51	72 19 89	52 3 15	14	75 46	13	49	80 59		19 5	53 5 73 7 52 5 76 7 49 5	2 5	8	31 f	0 5	8 5	5 52	57	50 77	48 84	56 81	47 85	55 83	57 82	52 81	55 51. 85 *79.
Winnsboro W Maximum .		81 51 79 51 78 57 78	43 80 53 85	49 85 53 87 55	89 57 92	62	81	57 46	49 45 48	45 . 74 46		90	80		74	49 F	5 6 8 8	100	87 9	106	21 7	2 6 4 8 9 6	1 60	58 85	54 78	58 78	55 80	69 82 55 83 57 83 55	80	80 57	61 *57. 84 80 58 54.
Winthrop College / Maximum.		47	85 51	55	92 55	88 59		44	43	46	49	56	61	45	18	77 7 49 5	2 f	50	65 6	55 6	31 5	69 6	60	51	55	5f	54	bñ	59	01	an 34.
								1	1	1	1		-		1	1	1	1	1	1	1	1	1	1	1	1	1			_	,

Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

Minstruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 6-25 28-900

#### U. S. DEPARTMENT OF AGRICULTURE WEATHER BUREAU. CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

VOL. XXXI. COLUMBIA, S. C., JUNE, 1928. No. 6.

#### GENERAL SUMMARY.

The month was cooler than the average, with but a few short warm and cool periods. Precipitation averaged somewhat above normal, but was marked by excessive rains in some

sections and practical drought in others.

Although the rainfall was badly distributed, with accumulation of grass in many sections, the weather has been generally favorable for crop development; but cotton and corn were in all stages of growth incident to much replanting, due to previous low temperatures and too much rain in some localities at Ellenton, Aiken County, on the 14th, two days later than \$150,000. normal, and squares and blooms were increasing in number as the month progressed. Cereal harvests were completed toward the end of the mouth, and stubble lands were turned to corn and forage, timely rains improving germination in most sec-The strawberry season closed during the opening week, made good growth, and curing began during the closing week. Sweet potatoes showed improvement, and transplanting was nearing completion as the month closed. Truck made good at the end of the month.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 42 stations, was 76.0°, or 1.5° below the normal. The highest temperature was 102° at Marion and Darlington from the 19th to the 21st, inclusive. The lowest temperature days, respectively, was 47° at Cherokee (near), Spartanburg filter plant, and at Santuck and at Walhalla on the 8th. The cool periods were on the 7th and 8th, on the 16th and 17th, and from the 25th to the 28th, inclusive.

#### HUMIDITY.

The mean relative lumidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was as follows: 8 a.m., 80%: noon. 59%: 8 p. m., 72%. The highest percentages occurred along the coast and in the higher Piedmont sections, and the lowest, in the interior.

#### PRECIPITATION.

The average for the Section, 53 stations reporting, was 5.58 inches, or 0.75 inch above the normal. Precipitation was spotted and very irregularly distributed as to area and amounts. There were three fairly well defined periods of rainfall. The measurements ranged from 5 to nearly 14 inches in sections of the coastal plain and the northern interior, while in other sections of the coastal plain and the up-country, the amounts ranged downward from 4 inches to less than 3 inches. The greatest local monthly amount was 13.91 inches at Camden, and the least local monthly amount was 2.71 inches at Marion. The greatest amount during any 24 hours was 4.55 inches at l

Camden on the 29-30th. The number of rainy days averaged 20% above normal. Light hail occurred at Aiken on the 22d, Landrum on the 29th, Newberry on the 18th, and Summerville on the 11th and 23d.

Killed by Lightning .- Mrs. Eunice Aiken, during the tor-

nado at Easly about 9:30 p.m., 29th.

Damage by Wind and Hail .- June 16th, in the vicinity of Roberts Church, near Anderson, heavy hail damaged crops to the extent of about \$2,000. At Easley, about 9:30 p.m., 29th, a tornado injured two persons and damaged 25 to 30 houses, with losses estimated at about \$60,000; the storm came from the northwest, "dipped" four times in the city, and disappeared a short distance to the southeastward; the short path ranged in width from a few yards to 200 yards. Another storm during the night of the 29th, accompanied by severe wind squalls and heavy rains, traversed northern Spartanburg County in a path about 200 yards wide and two miles long, damaged and not enough in others. The first cotton bloom was observed trees, dwellings, outhouses, and crops approximating about

#### WIND.

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was 7.2 miles. The highest average velocity was 9.9 miles per hour followed later by peach and blackberry marketing. Tobacco at Savannah, Ga., and in the Section proper, 9.6 miles per hour at Charleston; the lowest average velocity was 3.6 miles per hour at Charlotte, N. C., and in the Section proper, 6.1 miles per hour at Columbia. The highest velocity for any 5-minute period progress generally, and white potatoes, cucumbers, native was 36 miles per hour from the southeast at Savannah, Ga., watermelons, and vegetables of all kinds were being marketed on the 22d, and in the Section proper, 30 miles per hour from the southwest at Columbia on the 23d.

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 253.4 hours, or 61% of the possible amount. The average number of clear days was 13; partly on the 21st. The warm periods were on the 9th and 10th and cloudy, 9, and cloudy, 8, as against normals of 12, 11, and 7

#### RIVER CONDITIONS.

Moderate freshet conditions prevailed in the lower Broad The Santee River fell below River at the close of the month. flood stages at Rimini after the 5th, and at Ferguson, after the 3d, but rose to flood stage or slightly above at both stations on the 9th and 10th. The Pee Dee River at Mars Bluff was relatively high during the first half of the month.

MISCELLANEOUS DATA FOR JUNE, 1928.

	sea.		perati ees F		tio	pita- 11, hes.	Win		re	lean Intiv	re .	age of pos- sunsitine.
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, nilles.	Prevailing direction.	8 a. m.	Noon	8 p. m.	Percentage sible sunsi
Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex-!	29, 91 29, 96 29, 99 29, 94 29, 96 29, 98 29, 94 29, 99 29, 98	68.0 78.6 79.6 75.4 77.6 75.0 73.9 78.9 77.3	89 98 100 98 98 94 93 96 98	45 58 63 54 60 52 55 63 56	4. 45 2. 97 2. 75 4. 49 2. 79 3. 89 4. 36 4. 15 3. 07	1.58 0.75 1.04 1.00 1.03 0.75 2.12 1.87 1.31	*6.5 5.4 9.6 3.6 6.1 8.2 8.2 9.9 7.5	Se. S.W. S.W. S.W. S.W. S.W. S.W. S.W. S	86- 78 72 82 82 82 82 79 78	61 53 62 61 55 57 66 60 57	78 67 79 69 66 71 77 78	41 63 63 70 66 58 58 58
tremes	29, 96	76 0	100	45	3 66	2.12	7.2	SW	80	59	72	61

\*3-cup anemometers used since January 1, 1928.


		, ,			_ C1	imate	ologic	alD	ata f	or J	une,	928.								
			record,		Temper	rature.	in de	grees I	ahr.		Preci	pitation	in ine	ehes.	Nun	ber o	f da	ıys.	tion	
Stations.	Counties.	Elevation, feet.	Length of re	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest duily range.	Total.	Departure from the normal.	Grentest in 24 hours.	Total snowfall, unmelred.	With precipit on (0.01 in. or more)	Сраг.	Partly cloudy.	Cloudy.	Prevailing direct of wind.	Observers.
Eastern Portion.																	.1			
Beaufort (near)‡‡ Blackville Churleston Cheraw	Beaufort	296	47 44 57 46	78. 8 77. 6 79. 6 76. 8	-0.4 -1.8 +0.7 -0.6	99 99 100 101	18 20 20 21	59 55 63 55	8 8 8 8	36 28 23 37	5. 57 4. 03 2. 75 5. 44	+0.37 -1.38 -1.84 +0.30	2.30 1.52 1.04 1.21	0 0 0	11 13 11 10		13		s. sw.	Mrs. R. L. Fripp. Mrs. Margaret T. Sanders II. S. Weather Bureau. Roland D. Powe.
Conway Darlington †† Ellingtom Ferguson‡‡	Onvingeburg	106 63	38 33 37 42	78. 2 77. 4 78. 8	+1.1 +0.3 +1.5	101 102 101	21 21 21	59 53 56	8 8 8	36 32 31	5.23 5.57 8.88 3.71	+0.08 +0.13 +2.45 -1.89	2. 15 2. 20 4. 50 0. 66	0 0 0	11 11 12 10		0	14	sw.	Paul Qualifebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Sayage.
Florence 1. Florence 2. Garnett. Georgetown	Florencedo	18	46 13 10 35	78.1 78.4 78.9	-0.6 -1.0 +0.4	101 100 101	21 †20 †20	55 52 55	8 8 8	35 45 38	6.85 5.30 5.41 5.81	+1.58 +0.03 -1.52 +0.11	2.88 2.28 1.35 1.80	0 0 0	13 10 12 11	15	11 13 16 3	2	sw.	H. K. Gilbert, Pee Dee Experiment Sta, Muner B. Robert, A. P. Hazard,
Kingstree. Marion. Mars Bluff. Orangeburg Pinopolis	Berkeley	92 264 54	46 3 5 12 81	77. 4 78. 4 76. 4 75. 4	-0.8 -2.3 -0.8	98 102  98 91	20 21 21 †20	55 56 53 58	8 8 8 8	35 37  39	4. 25 2. 71 4. 66 9. 59 6. 45	-0.93 +5.10 +0.76	0.60 1.25 1.84 2.44 1.25	0 0 0 0	13 9 13 11 11	·ii-	2 10  7	12	s. s. sw.	Mrs. Ellen Seott. Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel.
Riminj Society Hill Summerville Wedgefield Yemassee	Sumter Darlington Dorchester Sumter Hampton	75 249	14 37 30 38 39	75. 3 77. 8 77. 4 77. 1	-2.0 +0.2 +0.1 -1.7	98 98 99 97	†20 †10 20 †20	52 52 53 53 52	8 8 8 8	36 38 38 40	4,30 5,28 6,21 4,13 4,97	-0.02 $+0.06$ $+0.51$ $-0.64$ $-0.59$	0.90 1.35 1.85 1.05 1.44	0 0 0 0	10 13 12 7 15	20 13 22 13	6 12 8 4	5	s. sw. w.	Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta. W Humpton Rumsey W. C. Hulson.
Division menus and Western Portion.	extremes			77.7	0.0	102	21	52	8	45	5.30	-0.16	4. 50	0	11	15	8	7	sw.	
Aiken Anderson Blairs Cesars Head‡‡ Calhoun Fulls Canden	Aiken Anderson Fairfield Greenville Abbeville Kershaw	527 764 293 3118 508 222	66 35 23 4 29 78	76. 1 74. 0 68. 4 76. 3 78. 4	-1.7 -2.0 +0.5	94 93 86 97 100	20 †20 21 21 21 21	56 52 55 53 57	† 7 27 8 7	36 38  23 31 31	3.89 4.59 4.56 10.36 3.68 13.94	-0.79 +0.99 +0.59 -0.23 +9.42	0. 97 0. 92 1. 15 2. 75 1. 22 4. 55	0 0 0 0	15 18 8 16 9 14	13 15 4 7	6 2 4 6	23	sw. w.	Frunk B. McCoy. H. H. Russell. Exther B. Owens. Crear's Head—P. Mtn. Co L. M. Purker. Henry A. Brown.
Catawba Chappells. Cherokee (near). Chester. Clenson College Columbia	Chester	562 402 758 487 850 351	22 23  6 36 42	73.1 73.8 77.6	-1.8 -0.5	95 94 98	21 21 21 21	47 48 60	8 + 7 7	44 41 26	4. 29 4. 88 7. 72 5. 95 2. 79	-0.09 +1.33 -1.12 -1.39	1.65 1.25 3.22 1.30 1.03	0 0 0 0	10 9 15 15	14	6	1 .	w.	Inmes C. Faris. George V. Clamp. Spartanburg Water Work J. C. Cornwell. Prof. F. H. H. Calhona. U. S. Weather Bureau.
Creseent. Due West Edgefield†† Gastou Shoals ††. Greeuville. Greeuwood.	Spartanburg	680 1039	2 14 14 25 44 44	75 0 78.9 75.5	-2.0 -0.2 -2.1	94 93 95	21 21 †21	52 55 54	8 8 8	29  25 32	5. 99 3. 89 4. 18 6. 69 4. 36 4. 10	+0, 15 +0, 82 -2, 11 -0, 44 -0, 18	2. 41 0. 75 2. 35 1. 65 2. 12 0. 76	0 0 0 0 0	15 17 5 14 18 14		ii in 0	14	sw.	Broad River Power Co. U. S. W. B. Acrological Sta Agent C. and W. C. Ry. S. C. It., Power a Ry. Co. U. S. Weather Bureau. M. M. Calhoun.
	Lancaster	568 3025 500 1063 589	26 2 12 13 10	74.6 76.6 72.8 75.8	-2.0 -1.1 -2.5 -0.8	96 99 94 96	20 †20 †19 †20	52 56 50 50	8 7 9 8	36 42 40 41	5, 86 8, 65 5, 83	+1.34 +0.68 +3.79 +1.67	1.91 2.21 1.82 0.91	0 0 0 0	10 12 13 14	9		16	SW. W. W. SW.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Haunel. R. Hurtwell Wilds, D.D.S. L. G. Roff.
Alttle Mountain Lockhart†† Newberry Pelzer Saluda Santuck	Newberry Union Newberry Anderson Saluda Union	711 336 502 850 536 512	35 2 24 24 26 35	75. 1 *76. 7  75. 8 71.9	-2.8 -1.9 -2.0 -5.0	97 *96 93 98	21 20 †21 20	54 *52 51 47	8 8 8 8	37 *32 36 36 34	3, 68 5, 98 4, 63 8, 48	-0, 63 -0, 45 +2, 09 +0, 23 +4, 61	0.91 1.16 1.84 0.90 4.47	0 0 0 0 0	8 13 13	12	5 4	3	s. w. sw.	Miss Alberta Sease. Broad River Power Co. John H. Baxter. Joshim V. Jones. W. S. Cront. E. W. Jeter.
Spariauburg. Treuton Walhalla. Winnsboro Winthrop College [f Division means and	Spartauburg Edgefield Oconee Fairfield Vork	690	51 35 28 34 28	74.0 75.9 72.6 76.6 75.3	-2.4 -2.6 -2.6 +1.9 -1.3	97 94 94 99 98	21 †20 †20 21 20	48 57 47 52 51	8 8 8 8	24 33 44 31 40	5. 17 5: 39 5. 66 6. 89 6. 76	+0.76 +1.05 +0.91 +2.51 +2.03	1.75 1.08 2.01 4.20 2.00	0 0 0 0	11	10 10 8	8 4 5 2	5 0	s. sw. sw.	M. H. Daniel. Mrs. S. E. Long. II. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
Section means and	1			76.0	-1.9 -1.5	100	21	47	8	44	5. 77 5. 58	+1.16	4.55 4.55	0	- 1	12	9		sw.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in debruilning section or division means. Reference letters (\*, b, 9, appearing in the table indicate number of days missing; for example, b represents two days missing, etc. † Also on other dates. If Received too late to be included in means and summaries. \*\* Temperate data are from observed readings of the dry bulb; means are computed from observed readings. If 1904 office addresses of these stations are as follows: Of Gaston Shoals, Backsburg; of Whitipo College, Rock Hill; of Ferguson, Entawville; of Casari's Head, Greenville; of Beaufort (near), Burton. \*\*T Precipitation is less than 0.01 incl. rain or melted snow.

### ERRATA.

May, 1928.—Greenville, number of clear and partly cloudy days, page 18, should be 9 and 11, respectively. Georgetown, highest temperature, page 18, should be 92 on 19th. Orangeburg, lowest temperature, page 18, should be 43 on 14th. Saluda, page 18, monthly mean temperature should be 66.6.

#### Daily Precipitation for June, 1928.

	Drainage.														Day	of m	onth			-												Trends
Stations.	busins.	1	2	S	4 5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Kastern Partian,	Const		.03 T.	.88	T21	. 30						.04	T.		.26	1.						1	52 32 Γ.	. 28	T. .05 .80	Т.	.20	. 33	.23	.21 .		5. 57 4.03 2.75 5.44 5.23
Darlington	Pee Dee		.66 .98 .73	.05 .03	35	. 64					. 25	. 15 . 11 . 46 . 09 T.			.07 T.	T						:: :	97 85 26	. 11 . 15 . 11	.11 .08 .26 .55	T.	7. 1.	. 35 . 16 . 40	. 82·2 . 05·4 . 66 .	.20 .50		5.57 8.38 3.71 6.85 5.30
Garnett Georgetown Kingstree#h Marion Mars Bluff Orangeburg	Savannah Coast Illack Pee Dee. do Edisto	. 24	.45	. 10		. 60 T.					. 18	. 06	. 43		. 12	Ť.	.05				:: ::	:: ::	38	28	.35 .40 .	45	. 32	. 02		84.		5, 41 5, 81 4, 25 2, 71 4, 66 9, 59
Pinopolls Rimbri	Cooper Santee Pee Dee, Ashley Wateree Ashepoo		.09	. 10 . 15 . 21	05 .73	. 263					.52	.03 i	.85		. 20		.20		:::			70 1 . i.	00 . 65 . 47 1.	60 41 28 55	.05 . .15 . .15 . T.	. 17 T	. 15	. 10 .	. 85 . 47 1,	Γ		6, 45 4, 30 5, 38 6, 21 4, 13 4, 97
Alken Anderson Blairs      Cesar's Head Calhonn Falls      Camden	Edisto	. 13	. 75	. 52	. 26 . 11 . 18 . 35 35 	.16 .20					. 18	. 30 1	. 15	.80 T	.33	. 15	.21	.06	50.		· · · · · · · · · · · · · · · · · · ·	15 .	20 .	26 35 24 36	. 02 . .14 . . 10 . . 10 .	22 T.	T.	. 60	. 50 . 85 1 . 38 	15 . r.		3, 89 4, 59 4, 56 10, 36 3, 68 13, 94
Cwtawba      Chupperis      Cherokee (near) Clester Clemson College Dolumbia ***	Catawba Saluda Brond do Savannah Congaree	.68	.37	.07	43 . 25	. 17				.13	15	.141	. 25	.71		02		. 09 .					. 1.	33 . 12 . 04 . 05 .	. 06 . 02 T.				. 50 1. . 74 3. . 15			4.29 4.88 7.72 5.95 2.79
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Except as otherwise indicated, observations are generally made late in the afternoon, near smost, and precipitation recorded is for the 24 hours ending at the time of observation. Ill Precipitation measured in the morning; amount then recorded is for the preceding 24 hours, \*\*\* Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight. \* Precipitation included in the next following measurement. ISeparate dates of (alls not recorded. T. Trace, or less than 0.01 inch.

### COMPARATIVE DATA FOR JUNE.

	Te	mperati	ire.	Precip	itution.	Averag	ge nnm dnys,	ber of	in g		Te	mperati	ire.	Precip	itution.	Avera	ge nun	ber of	e : :
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Reference letters (\*, b, e), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

M. Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 7-25-28-900

#### U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol. XXXI.

COLUMBIA, S. C., JULY, 1928.

No. 7.

#### GENERAL SUMMARY.

Thermal conditions were close to the seasonal average, with no marked extremes. Precipitation averaged somewhat

above the normal.

Though the rainfall was very irregularly distributed, with an over abundance in some sections and insufficient amounts in others, all crops made good growth, and cultivation kept relative pace. Corn, sweet potatoes, truck, forage, and minor crops showed general improvement. The early corn crop was practically laid by at the close of the month, and later plantings were generally vigorous. A good quality of tobacco was cured during the month. Cotton also made good growth and was developing squares and blooming and fruiting fairly well, with the early crop lapping the rows and practically laid by in most sections; incident to frequent mid-month rains, the plants were rather sappy, and conditions were favorable for increased insect activity; while the general crop is backward, the first open boll was picked near Olar on the 28th, or 15 days earlier than normal. Tree fruits, grapes, melons, and vegetables were being marketed at the close of the mouth.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 39 stations, was 79.5°, or 0.2° below the normal. The highest temperature was 100° at Calhoun Falls on the 5th. The lowest temperature was 58° at Walhalla on the 1st and at Landrum on the 7th. There were rather ill-defined warm periods from the 3d to the 8th and from the 19th to the 24th, and there were cool periods about the opening and close of the month, and also about the 11th and 12th.

#### HUMIDITY.

The mean relative lumidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was as follows: 8 a.m., 85%; noon, 60%; 8 p. m., 76%. lowest, in the interior.

#### PRECIPITATION.

The average for the Section, 52 stations reporting, was 6.81 inches or 0.88 inch above the normal. The month was generally showery, with but one date without rainfall in some part of the Section, and the amounts were badly distributed. In extensive areas of the coastal plain and central counties, and a portion of the Piedmont, the measurements ranged from 6 to over 13 inches, while in the north-central counties and a portion of the lower Piedmont, the amounts ranged downward from 6 inches to less than 2 inches. The bulk of the rainfall occurred during the middle and toward the close of the month. The greatest local monthly amount was 13.34 inches at Marion; least local monthly amount, 1.34 inches at Santuck. The greatest amount during any 24 hours was 5.34 inches at Walhalla on the 30th and 31st. The average number of rainy days

The storms of the 25th and 26th at Laurens washed out or damaged 32 bridges, with replacement costs of probably \$3,000.

Killed and Injured by Lightning .- June 22, Mr. Porter, planter, near Gaffney; his nule, with which he was plowing, was also killed. July 25, J. C. Porcher and John McLain, negroes, at Florence, during Knights of Pythias Encampment; three other negroes were injured. July 25, Isabel Walker and Tommy Tuck, negroes, near Newberry while at dinner; two other persons were injured. July 26, early night, a 16-year-old negro girl, and a babe she was holding was badly injured.

Damage by Lightning -At 4:30 p.m. on the 26th, lightning destroyed the flag staff of the Federal Court Building, Columbia, with replacement damage of about \$125. July 26, 3 p. m., barn of Mr. Walker Ellison, at Easley, fired by lightning and destroyed, with contents of cotton, two cars, and farming implements, the loss approximating \$4,000.

#### WIND.

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was 5.7 miles. The highest velocity for any 5-minute period was 36 miles per hour from the northwest at Augusta, Ga., on the 5th, and in the Section proper, 34 miles per hour from the west at Greenville on the same date.

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 276.9 hours, or 63% of the possible amount. The average number of clear days was 14; partly cloudy, 9, and cloudy, 8, as against normals of 13, 11, and 7 days, respectively.

#### RIVER CONDITIONS.

The Saluda River was in flood at Pelzer on the 13th and was rather high at Chappells on the 11th and 28th. The Broad River fell below flood stage after the 1st. The Santee River was near or above flood stages at Rimini and Ferguson during the month, except a short period about the 25th. The Pee Dee River was rather high at Mars Bluff from the 13th to the 21st, with high stages in the Lynches River at Effingham from the The highest percentages occurred along the coast, and the 1st to 5th, on the 9th, and again from the 14th to the 22d. Otherwise, the rivers had fair stages, notwithstanding considerable rain in the central counties.

#### MISCELLANEOUS DATA FOR JULY, 1928.

	r, sea	Tem	perati ees F	abr.	tio	ipita- n, hes.	Win	d	re	Mean dati midi	ve	e of pos-
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage o
Asheville, N. C Augusta, Ga Charleston, S. C	30, 00 30, 02 30, 04	78.0 82.0 81.0	87 96 94	55 69 70	3.78 3.66 5.16	1.10 1.31 1.48	4.9 4.3 8.5	se. s.	91 82 82	56 56 68	76 71 82	50 67 77
Charlotte, N. C Columbia, S. C Due West, S. C	30, 02 30, 02 30, 05	80.6 80.8 79.2	97 95 96	64 67 68	1.76 9.78 2.44	0, 88 2, 48 0, 77	3.0 4.4 5.7	SW. SW. SIT.	82 87 86	57 60 57	68 73	64 63 56
Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex-)	30, 02 30, 04 30, 04	78.6 81.2 79.0	94 94 93	64 70 64	7.58 6.02 9.57	3, 99 1, 91 2, 24	5.1 8.8 6.3	w. sw.	81 83 85	60 63 66	74 79 82	64 59 67
tremes	30 03 ometers	79 5 used si	97 nce J	55 anua	5.53 ry 1, 1	2.48 928.	5.7	SW.	85	60	76	63

#### Climatological Data for July, 1928.

					Clin	matol	ogica	l Da	ta fo	or Ju	ıly, 1	928.								
			record,	Т	empera	ture, i	n degr	rees F	ahr.		Precip	itation,	in incl	hes.	Num	ber o	of da	ys.	rtion	
Stations.	Counties.	on, feel	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelled.	With precipition (0.0) in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direct of wind.	Observers.
Eastern Portion.				1																
Beaufort (near)‡‡ Black ville Charleston	Beaufort	21 296 48 144	47 44 57 46	80. 8 81. 0 81. 0 80. 0	$ \begin{array}{c} -0.6 \\ -0.4 \\ -0.4 \\ 0.0 \end{array} $	95 97 94 97	†23 24 24 24 23	68 65 70 63	† 6 31 14 1	25 29 21 27	5.95 6.26 5.16 3.32	$   \begin{array}{r}     -0.16 \\     +0.76 \\     -1.73 \\     -2.78   \end{array} $	1. 60 2. 32 1. 48 1. 15	0 0 0 0	9 10 9 8	14	7 10	10 11	s. sw.	Mrs. R. L. Fripp. Mrs. Margaret T. Sanders. U. S. Wenther Bureau. Roland D. Powe.
Conway Darlington †† Effingtom Ferguson ‡ ?	Horry	25 175 106 63	38 33 37 42	79. 6 79. 6	-0.3 -0.3 +0.8	95 94 97	† 6 7	64 62 66	† 1 1 31	25 27  26	7.42 2.67 8.69 7.66	+0.71 +1.95 +2.57 +1.02	1.42 1.51 2.00 1.60	0 0 0 0	14 11 11 13	20 9 	0 12 	11 10 	sw.	Paul Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Florencedodo	136 136 82 18	46 13 10 35	81.2 80.5 81.4	0.0 -0.6 +0.7	95 98 99	†20 † 7 25	64 64 65	1 † 6 81	26 30 30	11. 24 12. 82 7. 34 7. 33	+5.36 +6.94 +1.46 +0.57	2.36 2.55 1.30 2.32	0 0 6 0	14 13 13 7	19  14 16	5  9 7	7  8 8	sw.	H. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. A. P. Hazard.
Kingstree	Urangeburg	54 68 92 264 54	46 3 5 12 81	79.4 680.8 79.8	-1.0 -0.2	93 195 96	24 †21	65 662	1 1 1	22 30 27	10.92 13.34 9.85 6.24 8.78	+4.34 -0.93 +1.99	2.55 3.00 1.75 2.60 1.25	0 0 0 0	13 12 14 12 14	17	8	12	s. sw.	Mrs. Ellen Scott. Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel.
Rimini	Sumter	97 192 75	14 37 30 38 39	80.6 79.8 79.8	+0.7 +0.4 -0.9	95 98 98	26 6 24	66 64 64	31 1 6	24 25 30	7.31 10.73 6.87 9.96	+0.55 +3.77 +1.85 +2.89	1.52 2.36 1.42 2.80	0 0 0 0	12	13 22 19	 7 7 2	11 2 10	sw. w. sw.	Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta. W Hampton Ramsey W. C. Hutson.
Division means and	extremes			80.4	0.0	99	25	62	1	30	8.33	+2.01	3.00	0	11	16	6	9	sw.	
															1					
Western Portion.																22	,			
Alken Anderson Blairs Cæsars Head‡‡ Calhonn Falls Camden	Fairfield	527 764 293 3118 508 222	66 35 23 4 29 78	79. 5 78. 6 71. 4 80. 4	-0.6 -0.9	95 95 84 100	† 4 23 † 4 5	66 64 59 63 64	15 15 15 15	20	9.87 2.90 4.48 6.16 7.41 5.87	+4. 95 -2.08 -0.56 +2.25 +0.56	1. 60 1. 30 2. 92	0000	9 12 8	25 7 12	8 7	8 6 16 12		Frank B. McCoy. 11. 11. Russell. Esther B. Owens. Cresar's Head—P. Mtn. Co 1. M. Parker. Henry A. Brown.
Catawba Chappells. Cherokee (near). Chester Clenison College Columbia	York Newberry Spartanburg Chester	562 402 758 487 850	22 23  6 36 42	77. 6 78. 4 80. 8	+0.9	96 94 95	20 4 23	60 63 67	i i i i	30 29 27	1. 60 6. 65 5. 63 5. 24 9. 78	-4.49 +1.84 -0.04 +3.72	1.07		10	25	18 11	2  9 8	SW.	James C. Faris. George V Claup. Spartanburg Water Works. J. C. Cornwell. Prof. F. H. H. Calhoun. U S. Wenther Burean.
Crescent. Due West. Edgefield †† Gaston Shonis †† Greenville. Greenwood	Spartanburg Abbeville	711 680 1039	. 2 14 14 25	79.2 78.6 79.6	0.0 +1.7 +0.6	96 94 96	4 4 5	63 64 62	15 5 1	26	3. 11 2. 44 10. 74 7. 43 7. 58 4. 42	- 2.14 +5.32 +2.88 +2.01 -0.79	3. 67 2.15 3. 99	(	9 12 10 10	4	14  18 0		w.	Broad River Power Co. U. S. W. B. Aerological Sta. Agent C. and W. C. Ry. S. C. Lt., Power & Ry. Co. U. S. Wenther Bureau. M. M. Calitonn.
Heath Springs Hogback Mountain Kershaw Landrum Landrum	Lancaster	568 3025 500 1063	12 13	78.5 80.6 77.9 80.4	-0,8 +1.6 +0.8 +1.9	94 99 95 98	† 4 21 † 4 †20	63 58 63	1 1 7 1	30	3, 50 1, 57 9, 30 7, 30	-1.51 -4.79 +1.80 -2.38	0.59			13 13	15 0 12 11	18	w. w.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Hamel. R. Hartwell Wilds, D.D.S. L.G. Roff.
Little Monntaln Lockhart† Newberry Pelzer Salnda Santuck	Newberry	711 - 336 - 502 - 850 - 536	24 24 24 26	79. 1 80. 5 79. 2 *79. 4	-0.9 0.2 0.9 -0.2	96 97 92 98	23 4 3 23	63 68 60	· · · · · i	30	5. 68 1. 94 5. 00 1. 34	+1.81 +1.02 -0.68 -0.18 -3.79	1.85 1.84 1.28		9 0 14 0 15 0 7	18 15 15	9 15 14	4	. W.	Miss Alberta Sease. Broad River Power Co. John H. Baxter. Joshun Y. Jones. W. S. Crout. E. W. Jeter.
Spartanburg Trentou Walhalla Winnsboro. Winthrop College !!	Oconee	. 1061	28	78.4 79.6 77.0 *80.0 80.2	-0.9 +0.6 -0.5 +0.4 +1.9	96	4 4 22 † 4 20	°63 65	31 † 1	32 •33 2 31	3.28 1.69	+0, 33 +3, 95 +6, 56 -1, 75 -3, 68	5.00 5.34 1.06 0.45		0 12 0 12 0 13 0 12 0 7	11 15 14 15 15	15		۵.	. M. H. Daniel. Mrs. S. E. Long. II. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
Division means and Section means and	extremes		1	78.9	-0.4 -0.2		5		1		5, 80 6, 81		1		0 11	1			1	
	d.	4	1	1	4	1	1	1	1	13.		- 1	1	-		1	-			

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (e, u, e), appearing in the table indicate number of days missing; for example, be represents two days missing, etc. if Also on other dates. If Received too late to be included in means and summarine. "Temperature data are from observed readings, 1110st-office addresses of these stations are as follows: Of caston Shoots: Bulleton Shoots, Bulleton Shoots,

#### ERRATA.

June, 1923.—Due West, minimum temperature, 22d, page 20, should be 67. Marion, mean temperature, page 18, should be 79.0.

#### Daily Precipitation for July, 1928.

								Da	шу	Pr	901p	ILAI	tion	101	Ju	ıу,	193	28.						_									
	Drainage-														1	Day	of m	onti	n.														
Stations.	basius.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	80	81	Total
Enstern Portion. Beaufurt(near)	Coast	T.	Т.				1. 25				.50	.08	.22	1.30	. 40			. 45		Ì						1.60			. 09				5, 95
Blackville	Edisto		·			.23	. 06				. 36	.56	1.48 1.48	. 05	-14		4.	96	. 80		· ir						.82	2.82					6, 26 5, 16
Cheraw    Conway	Pee Dee Waccamaw			.21	. 10		. 92					I. 15	. 19	.21	. 19			1 49	T.						. 35		T.						3. 32 7. 42
Darlington III	this bas	. 18									i .		.38					. 67												• • • •	. 11		
Ellingham III	Lynches									1.90	1	9 60	96	1.30	18			80	97						.80 1.06		1.51			. 07			7.67 8.69
Ferguson	Santee Pee Dee	1. 16	• • •	• • • •	. 55	. 56	.10		: : :	.20		1.03	. 91	1.42	1.14	. 39	Ť	1, 60	1.68		• • • •	• • • • •	• • • •	• • • •	9 36	18	. 03	. 69		, 05	. 67		7.66
Florence 2	Pee Deedo				1.00		.36			. 68		1.03	.58	2. 15	1.80			. 67	. 68						2. 55	. 36	.93			.08			12.82
Garnett	Savannah		. 50			. 32				. 37	1, 15	.93	. 92	. 21	. 48		. 07	1.30	.01								. 20	. 88					7.34
Georgetown	Black					. 20			. 45		. 45	1.45	2, 55	1.00	. 10	1.05		1.00	2.00						. 15		35	17	2				7, 33 10, 92
Marion'	Pee Dee			. 46		• • • • •	.16	• • • •	• • • •	. 22		1.34	1, 62	2.85	. 91	90	. 78	1.00	1 50		• • • • •				3.00	.10							13.34
Orangeburg	Edisto	T.					. 04		. 12	. 16	.03	1.59	2,60	.01	.07		T.		. 12			• • • •	• • • •	T.	. 07		. 05	1.38					6. 24
Pinopolis	Cooper Suntee		. 50			1.00					.20	1.00	. 90	1.25	. 60		1.00	.84						. 33	. 19	. 14	. 28			.55			8.78
Rimini	Post Das																											. 60					7.31
Wedgefield	Ashley Wnteree	. 92	• • • • •		Ť	. 06	.07	••••	. 70		1 00	2. 36	.78	.71		1.02	. 04	1.77	1. 42														10.73
Western Parting	Ashepoo	.46					.03					1. 27	. 42	.94	.72	. 57			2. 57								.07						9.96
Alken Anderson	Edisto		. 07			. 14	. 21		1.33		. 04	4. 67	. 39	. 39	. 43		. 13										. 23	1.84					9.87
	Broad	••••			• • • • •	. 57	68	••••	.08	. 25	. 30	1 60		. 43	.03	• • • • • •				•••	••••		••••			. 17							2.90 4.48
Culliona Eatte III	Salnda Savatmah	. 17				. 10			1,05			.28	.50	. 15											.58	. 33	1.05	.10		. 55	. 30		6.16
Camden III	Wateree	::::				::::			.05	1. 35		.40	1.40	T.	. 05			1. 25	.10						. 32	. 05	. 22	. 62	::::	.20			7.41 5.67
Catawba	Catawba											. 75													. 55		. 15	. 15					1.60
Cherokee (near)	Sainda Broad																																6.65 5.63
Clemen Callan	Sayannah																										1.30						5.24
Columbia ***	Congareo				. 00	4.		2. 40	. 04	- dñ	.03	. 98	. 48	. 12		.08	1.40	. 10	1.	.00	. 01				1. 13	. 03	1.071	!					9.78
Crescent. Due West***	Enoree	.09				.36	. 01		. 15	. 41		. 13	. 20	. 21											1.16		. 16	. 23					3.11
Edgetield nil	Savanimh	Т.			.13	. 63	. 93	1.	. 18	. 10	.70	3.67		. 17	1.60	••••	. 60	.30	••••	• • • •				. 14	T.	.09	. 32	T.			т.  .		2. 44 10. 74
Greenville ***	Savanimh Brond Salndado					. 19		·	1 25	. 08	2. 15			. 56	1.43									.41	.82	. 98		.75	T.		.11.		7.43
												3. 23		.06	. 27									.24		.30	.48	. 12		. 08 .	. 10		7.58 4.42
Hogback Mountain	Wnteree							.34	.09	. 69	. 87	.18	. 24	. 04			. 83							. 04	.03		. 15						3.50
Kershaw JII	Broad Lynches									. 04	.04	50						• • • •	• • • •		• • • • •									• • •		••••	1.57
Landrina Laureus	Broad Saluda																																9.30 7.30
Little Mountain	Salada					00	10	3 00	10		40				1	- 1	- 1						U			- 1		1				1	
Lockhart	Broad						. 13		. 12		. 40	1. 29	.06	.18											. 15	. 55	. 15					• • • • •	6.73
Newberry Pelzer	Saindado		.04			. 06	.12		.19	. 14	1.15	.40	• • • • •	. 45	. i2		••••	T	•••				.12		. 10	.79	.71	84	. 02		• • • •	18	5.68
Santuck	Broad		. 04			r 55	. 40		35 T	. 03	. 26	. 61 T	.10	.27	.09									38	.25 T	1. 28	. 32	.08	. 02				5.00
Spartanling	do						50		•	.03	05	1.	. 90	.07				•						* .	4.	.27	. 19	. 05					1,34
Trenton	do Edisto Savannah		.08			1.18	.50		.30	T.	4. 45	.55	.40	.06	.45			.76	••••				. 20	.60	. 32	. 35	.50	T.	T.	. 10	. 10	. 45	5, 65
Willialla Winnsboro																																.34	12.64 3.28
Winthrap College	Catawba					.09		. 20	. 50		. 14			. 16	. 15			.45							.41	.08	.02	.31					1.69

Except us otherwise Indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. |||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the 24-hour period, midnight to midnight. \* Precipitation included in the next following measurement. Is parate dates of falls not recorded. T. Trace, or less than 0.01 luch.

#### COMPARATIVE DATA FOR JULY.

Temperature   Precipitation   Average number of days.									
Year				days.		ire.	Temperati	T	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Year.	whind the wind the wind the wind the wind the wind the west, west, west, west, lear, line, more, and y.		Lowest.  Average.  Average days with or more.  Clear.  Clear.  Cloudy.		Lowest.	igh	Меап.	Year.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	883 1859 1890 1891 1891 1892 1893 1891 1893 1893 1897 1899 1990 1900 1	1908   76.6   104   55   4.92   10   13   12   6	SW   SW   SW   SW   SW   SW   SW   SW	8	3.68 8 12 5.95	53 51 52 56 51 60 55 54 54 54 54 57 56 62 60 60 60 60 60 60 60 60 60 60 60 60 60	9 108 102 1 104 9 9 102 1 104 1 104 1 100 1 102 1 102 1 107 1 107 1 107 1 108 1 108	78. 9 78. 4 77. 9 78. 9 82. 0 77. 7 80. 7 80. 0 80. 0 81. 4 80. 8 80. 4 79. 4 78. 4 81. 4	1884 1849 1840 1840 1841 1842 1842 1842 1891 1891 1891 1891 1891 1891 1990 1990

Daily Temperatures	for July, 1928.	
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							שנע	ily	Te	npe	rat	ures	for	r J	ury,	18	20.								- 1	-	- 1	1		_	1	
Stations.	1	2	8	4	5	6	7  -	8	9	10 1	1	12 1	3 1	4	15	6	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Rostera Partion.	944 744 900 2844 788 638 647 872 658 644 877 652 656 864 644 657 658 658 658 658 658 658 658 658 658 658	89 677 90 677 95 66 90 68 88 70 92 66 89 68	888 677 922 666 911 688 933 677 91 677 90 678 996 67 9067	87 73 96 70 86 74 92 67 91 68 93 67 92 67 89 67 89 67 90 68	87 76 92 78 86 72 98 70 89 70 88 86 88 90 71 72 91 72 85 70 85 70 85 70 85 70 85 70 86 86 86 86 86 86 86 86 86 86 86 86 86	82 68 95 66 91 71 92 96 66 95 71 66 94 68 97 75 64 97 70 70	89 70 91 70 91 70 91 70 94 70 92 72 98 93 73 91 72 96 68 93 72 94 94 72 95 96 89 97 97 97 97 97 97 97 97 97 97 97 97 97	90 71 88 73 84 75 90 72 89 71 90 72 93 68 91 73 93 72 93 72 93 72 93 72 93 72 93 72 93 72 90 72 90 90 90 90 90 90 90 90 90 90 90 90 90	92 74 93 68 67 71 90 71 91 70 93 73 90 72 93 73 90 72 91 68 86 77 71 90 72 91 73 90 74 90 75 90 77 90 77 90 77 90 77 90 77 90 90 77 90 90 90 90 90 90 90 90 90 90 90 90 90	81 74 86 78 87 88 78 86 74 87 88 78 87 87 87 87 87 87 87 87 87 87	87 70 83 70 83 72 78 68 71 78 70 84 70 86 82 72 78 68 69 82 72 78 68 68 70 70 81 70 81 70 81 81 81 81 81 81 81 81 81 81 81 81 81	82 72 69 80 70 71 83 71 82 71 84 71 84 71 84 70 85 68	86 71 87 82 75 83 72 84 71 87 87 87 88 88 88 72 88 88 88 72 88 88 88 88 88 88 88 88 88 88 88 88 88	88 69 74 86 90 71 87 87 87 77 89 77 77 89 77 87 77 88 75 88 88 88 75 88 88 88 88 88 88 88 88 88 8	87. 724 990 888 70 900 68 89 90 68 87 70 88 87 70 88 87 85 69 90 88 87 88 87 88 87 88 88 89 90 88 88 89 90 88 88 89 90 88 88 89 90 88 88 89 90 88 88 89 90 88 88 89 90 88 88 89 90 88 88 89 90 88 88 89 90 88 88 89 90 88 88 88 88 89 90 88 88 88 88 88 88 88 89 90 88 88 88 88 88 88 88 88 88 88 88 88 88	89 74 82 76 86 76 86 72 88 73 89 75 87 89 70 90 91 73 87 73 86 73 87 73 87 73 87 73 86 73 86 74 74 75 75 75 75 75 75 75 75 75 75 75 75 75	85 71 89 87 72 87 77 88 77 88 77 88 77 88 77 88 77 88 77 88 78 88 78 88 78 88 78 88 78 88 78 88 78 88 78 88 78 88 78 88 78 88 8	87 69 86 86 87 71 87 88 86 70 90 68 88 71 91 68 86 67 88 67 88 67 88 67 88 67	94 72 94 71 92 76 94 97 91 70 93 70 94 72 95 69 71 90 71 94 68	94 73 94 72 91 75 72 94 72 93 71 95 72 93 71 95 73 95 73 91 73 94 70 94 70	92 72 94 72 92 75 96 97 8 97 92 97 92 97 99 95 74 91 95 79 97 97 97 97 97 97 97 97 97 97 97 97	93 75 94 72 92 73 94 73 94 73 97 70 97 77 77 77 77 77 77 77 77 77 77 91 77 91 91 91 91 91 91 91 91 91 91 91 91 91	955 742 755 742 975 972 975 975 975 975 975 975 975 975 975 975	95 76 97 75 94 79 92 72 93 71 92 74 92 74 93 76 93 76 93 76 93 75 95 95 97 97 98 97 98 97 98 98 98 98 98 98 98 98 98 98 98 98 98	94 70 96 75 98 97 98 74 90 75 94 76 96 96 96 78 99 76 88 88 74 90 76 89 86 76 88 88 88 88 88 88 88 88 88 88 88 88 88	91 71 93 71	944 766 922 711 711 711 712 889 722 887 70 90 70 93 74 93 74 93 74 93 74 93 74 93 74 93 74 93 74 93 74 93 74 93 74 94 95 95 95 95 95 95 95 95 95 95 95 95 95	92 73 93 94 78 94 74 75 92 75 94 75 94 75 95 75 91 91 91 91 91 91 91 91 91 91 91 91 91	84 71 94 72 93 72 88 73 88 75 87 73 90 75 90 75 89 75 89 75 89 75 89 75 89 75 89 75 89 75 89 89 75 89 89 89 89 89 89 89 89 89 89 89 89 89	84 68 88 74 86 74 86 67 86 87 86 87 86 87 86 87 86 87 88 86 87 88 86 87 88 88 88 88 88 88 88 88 88 88 88 88	922 722 888 655 655 656 666 886 666 866 866 866 866 866 866 866 866 866 866 866 866 866 866 86	89. 4 72. 3 90. 9 71. 0 87. 3 74. 8 89. 5 70. 7 70. 6 88. 7 70. 7 70. 7 70. 7 70. 7 70. 7 70. 7 70. 7 70. 7 70. 8 81. 1 82. 6 81. 1 82. 6 83. 8 84. 7 7 7 7 7 7 84. 6 85. 7 7 7 7 85. 7 7 86. 7 7 7 86. 7 7 86. 7 7 86. 7 7 86. 7 7 86. 7 86. 7 86. 7 86. 7 86. 7 86. 7 86. 7 86. 7 86. 8 86. 7 86. 8 86. 8 8 8 86. 8 86. 8 86. 8 86. 8 86. 8 86. 8 86. 8 86. 8 86. 8 86. 8 86
Wedgeheld Maximum Minimum Minimum Minimum Minimum Maximum Minimum Minimum Minimum Minimum Maximum Minimum Mini	86 64 91 66	71 88 70	68 90 68	92 72 90 66	93 69	68 94 64	70 91 68	90 72	72 91 67 85 69	83 70 85 69 82 69	74 69 83 69	71 81 69	70 87 68	88 73 88 72 86 69	88	73 86 71 86 71	71 87 74 88 71	68 90 66 85 69 88	98 71 90 72 93 70 89 70 92	72 94 71 71 90 72 94	90	72 93 70	93 74 92 74 94 73 73 93 77 95	95	94 76 88 74 94 74	98	94 71 90 72 91 70	73 93 73		68 87 72	66 87 66	90. 0 69. 7
Anderson	70 84 64 76 70 90 64 84 84	87 66 78 66 97 67	91 68 81 64 95 68 68 95 68	94 71 84 65 100 71 67 94 67	90 66 83 67 95 68  69 93 65	69 87 66 80 63 92 67 88 63	66 88 69 81 64 92 68 71 91 66	50 71 74 66 92 69	81 69 76 63 86 68 70 88 68	82 71 76 64 87 70 69 82 70	83 69 77 65 88 70 68 85 70	87 71 79 62 88 68 68 70	70 83 71 75 63 88 70 69 83 69	69 87 68 71 60 90 67 70 86 69	92 63 72 88	87 69 78 60 91 66 69 88 64	71 90 69 81 61 92 69 71 89 67	88 68 80 62 90 68 71 90 66	92 71 83 66 95 69 72 93 67	94 72 84 65 97 72 73 96 70	71 92 72 84 65 96 72 74 93 69	74 93 71 84 66 97 71  76 94 69	95 72 83 67 97 72 71 98 69	78 83 67 94 73	95 75 89 71 80 65 92 72 70 88 69	65 93 70	91 70 71	69 80 62 92 70	81 61 91 66	90 71 86 71 73 62 92 70 68 82 67	87 66 84 67 70 62 88 66	70.0
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Greenwood Maximum Minimum Heath Springs Maximum Minimum Hogback Mountain. Maximum Kershaw Minimum Kershaw Minimum Landrum Maximum Janimum Janimum	88	8 6 8 6 8 8 8 8 8	5 66 7 90 5 60 1 94 4 67 8 91	94 69 97 69 95 69	68 92 69 94 70 91 64	64 90 67 94 67 91 66	91 68 92 69 69 97 68 91 58	90 72 83 69	69	69	85 68 80 68 79 69 85 71	68 83 65 88 69	86 70 80 69  85 71 84 67	86 68 84 70 90 71 86	64 88 70 91 70 89 64	88 65	67	91 70 90 66	70 92 68	95 72 94 71	99 75 94 72	97 72 95 71	94 78 93 74  96 74 92 70	72 91 78  94 78 92 71	95 74 88 70	700 84 84 71 71 70 87 70	91 71 71 81 86	9-	70 87 72 91 72 85 66	68 85 65 89 65 83 68	64 85 65 90 66 87 67	68.7 87.5 69.5 91.4 69.8 88.4 67.4
Laurens   Maximum   Minimum   Minimu	61 81 81 81 81 81 81 61 61 81 81 81 81 81 81 81 81 81 81 81 81 81	6 9 6 9 6 8 6 8 7 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8 66 4 9: 33 65 22 9 9: 6 6: 9 9: 9 9: 9 9: 9 9: 9 9: 9 9:	5 70 98 7 69 7 69 7 70 91 7 70 91 7 69 91 7 69 91 7 69 91 91 91 95 96 96 97	69 94 67 96 67 91 73 90 70	67 92 64 92 67 91 70 87 67	66 93 68 84 71 89 68	71 88 68 80 72 84 73 80 70	69 80 71 85 67	69 85 70 80 74	88 71 77 67 81 70 76 78 71 88 68	71 86 68 81 71 82 74 85 70	86 72 85 69 87 71 82 74 82 70 83	89 70 87 69 90 69 86 79 89 70	65 90 65 86 86 90 68 86 86 86 86 88 86 88 86 88 86 88 86 88 86 88 86 88 86 88 86 88 86 88 86 88 86 88 86 88 86 88 86 88 86 88 88	70 84 72 91 66	68 90 69 92 72 80 73 91 70	68 91 68 91 69 88 72 90 68	93	73 95 70 95 72 90 75 94		71 95 70 96 73 89 75 95 72	99	72 95 72 95 95 75 95 75 91 78 94 72 94 72	89			9 90 70 90 11 7: 7 8: 7 8: 7 9: 90 9:		67 88 69 85 72 89 68	61 61 61 61	89.1
Treuton   Maximum Minhum, Maximum Mahalla   Maximum Minhum, Walhalla   Maximum Maximum Maximum   Maximum   Minhum,   Minhum,   Maximum   Minhum,	. 8' . 6' . 8'	9 6 8 6 9	0 94 8 70 8 91 4 6 95 7 69	95 71 95 66 8. 96	92 67 93 68	90 65 90 68 92 65 95	68 91 69 91 67 93 67 93 70	78 67 91 71	69 84 67 91	69 82 68 86 70 86	69 78 71 85 67 79 69	70 85 70 87 68 81 70 83 69	84 69 84 66 84 70 84 71	69 85 71 88 64 89 70 89	5 88 1 70 8 89 1 59 91 68 9 91 69	63 90 70	88 76 92 63 88 71 91 69	70 90 63 91	71	95 72	70 95 72 94 68 95 75 95 75	96 67 96 72 96	95 65 96 96 76	7-1 8 92 8 67 9 99 4 79	70 90 90 70 90 70 90 70 90 70 90 70 90 70 90 70 90 70 9	9 67 0 88 3 70	786	0 7 8 8 5 6	3 90	89	6 9	8 70,5 2 89,1 8 65,0 *90,5 6 *69,5 1 91,8

Reference letters (s, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

\$\omega\$ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 8-27-28-900

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

Vol. XXXI. COLUMBIA, S. C., AUGUST, 1928.

#### GENERAL SUMMARY.

The month goes into history as one of the stormiest Augusts of record, the monthly average rainfall being exceeded but once since the rains incident to the great hurricane of August, 1893. As in July, 1916, the extraordinary rains, though differently distributed, were the results of two tropical storms that passed over this region about the 10-11th and 16-17th. Tornadoes were more frequent than usual, and two persons were killed and 11 injured, while wind squalls caused the death of one person and injury to another when homes were wrecked. Up to this writing, the general damage from storm stress and floods approximated \$3,222,000.

The first bale of cotton was ginned at Allendale on the 13th. one day earlier than normal.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 41 stations, was 79.4°, or 0.5° above normal. The highest temperature was 98° at Camden on the 3d and 8th, and at Garnett on the 3d, 4th, and 7th. The lowest temperature was 59° at Caesar's Head on the 1st. The warm and cool periods were short and rather ill-defined.

#### PRECIPITATION.

PRECIPITATION.

The average for the dection, 53 stations reporting, was 10.22 inches, or 4,32 deches above normal. Precipitation occurred on everythin in some part of the Section after the 1st and was the ideally heads in two periods from the 10th to the 18th. The total manthly amounts were very unevenly distributed, tapeding off from 19 guilder 20 inches in Spartanburg and upper Greenville Cacultes to less than 2 inches in Beaufort County. The greatest local monthly amount was 20.02 inches at Burton, near Beaufort. The greatest 24-hour rainfall was 11.00 inches at Cacsar's Head on the 14-15th.

nehes at Caesar's Head on the 14-15th.

Tornadoes.—Near Batesburg, 10th. 6:30 p.m., about 3 miles east, on Wagoner Road; short path, about 35 yards wide, rending southwest to northeast; 2 persons killed and 9 injured; property damage, about \$6,000. Bath. 15th. about 5:30 p. m.; short path, southwest to northeast, about 100 yards wide; 2 persons injured, and property damage, about \$5,000. Charleson, 15th, 5:30 p. m., along sea front; path about 35 yards vide and 700 yards long; no one injured; property damage, about \$400. Little Mountain, 15th, 1:00 p. m.; path about 0 yards wide and 3 miles long; property damage, about \$6,000. Newberry, 10th, 9:00 p.m.; storm dipped into city, with amage estimated at about \$25,000; no loss of life or injury; 5th, another tornado traversed the lower county between 1:00 and 3:00 p.m., with no injury or loss of life, but property lamage estimated at about \$30,000; near the Henderson property, t was described as follows: "The black cloud was noted high n air, filled with trees and debris, passing with a loud roar.

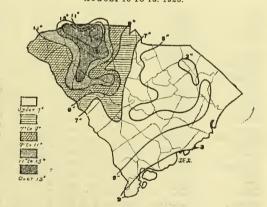
Deaths, Injuries, and Damage from Winds not Tornadoes.— Ilmost continuous wind squalls during the night of the 10-11th aused the death of a daughter of Wallace Foster, colored, near

Santuck, and injury to Mrs. Nevils, at Dunbarton, when their homes were wrecked, entailing general property loss of about \$12,000. The general crop damage in the Section by heavy winds after excessive rains had weakened the root systems of vegetation, has been conservatively estimated at about \$775,000. Lexington, 12th, 3:00 p.m.; wind squall damaged local property about \$1,500.

#### RIVER CONDITIONS.

The extraordinary rains in the central and upper counties during the period, 10th to 18th, were followed by the greatest floods in the various streams since the great floods of July, 1916. One man, Dan Jackson, colored, was drowned in the Congarce swamp, in Gill Creek, on the 13th, while hunting cattle. bursting of the large dam at Leckhart eaused the previous highwater mark at Blairs of 36.9 feet on July 16-17, 1916, to be overtopped by 3.1 feet at 2:00 p.m., August 17, 1928. At this date, damage from floods in the Santee River District approximated \$2,447,000, and the value of movable property saved by warnings of the Weather Bureau has been estimated at about \$360,000. Data from the Pee Dee and Savannah drainage areas are not at hand.

CHART SHOWING TOTAL PRECIPITATION DURING PERIOD, AUGUST 10 TO 18, 1928.



MISCELLANEOUS DATA FOR AUGUST, 1928

*tations.	r. sea	Tem	perati ees Fi	re, shr.	tie	ipita- on, thes.	Win	nd.	re	lear lati midi	9.7	sof pos-
Stations.	Baromete level	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a, m.	Noon.	8 p. m.	Percentage sible suns
Asheville, N. C., Augusta, Ga., Charleston, S. C., Charlotte, N. C., Columbia, S. C., Due West, S. C., Greenville, S. C., Savannah, Ga., Wilmington, N. C., Means and ex.) tremes.	30, 04 30, 03 30, 06 30, 05 30, 07 30, 04 30, 05 30, 06 30, 06	73.0 81.6 82.0 79.8 80.4 78.6 77.9 81.2 80.0	87 96 93 97 94 98 92 93 92	66	9. 08 8. 44 2. 82 13. 14 10. 19 13. 90 13. 86 6. 29 7. 11 9. 37	4. 43 3.41 1. 30 4. 08 3. 92 5. 63 6. 52 1. 56 2. 02	* 4.9. 4.5 8.9 3.1 5.1 6.3 6.3 9.1 5.5	se. sw. sw. sw. sw. sw. sw. se. sw.	95 87 85 90 89 89 88 88 87	61 60 70 69 63 64 64 67 70	82 76 84 81 78 78 81 86	47 66 74 62 60 57 66 52 75
tremes y	30 05	79 4 1	97 .	58	9 37	6. 82 /	6.0	SW	89	65	81	62

\* 3-cup anemometers used since January 1, 1928.

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0 16 14 11 6 W. 0 9 ... 7 22 2 sw. 0 10 14 10 7 sw

0 12 13 11 7 sw.

0 8 10 16 16 15 0 8 9 8 22

15, 71 11,60 13,19 15,52

33 12.85 +7.45 11.00

1 . 33 10.22 +4.33 11.60 0 12 13 11 7 sw

28 | 16.50 26 | 11.26 29 | 12.88 #24 | 11.18 29 | 10,75

30

Miss Alberta Sense.
Broad River Power Co.
John H. Baxter.
Joshua Y. Jones.
W. S. Crout.
E. W. Jeter.

M. H. Daniel. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson W. T. Clawson.

				C	limat	ologi	cal I	ata	for .	Augu	st, 1	928.						1		
		Fed.		Tem	peratu	re. in	degree	s Fah	r.	- 1-1	recipi	tation, i	n inch	es.	Numi	ber of	days		1	
Stations.	Counties.	Elevation, feet.	year	Mogasture from	the gornal.	1	Darb.	Lowest	Date.	ralige.	Total.	Departure from the normal.	Greatest in 24 nours.	Total snowfull,	With precipit on (0.01 in or more).	Dear.	Cloude	Prevailing direct		Observers.
Eastern Portion.		-				1												Sw 1		
Beaufort (near)\$\$ Blackville Charleston	Charleston	296 48	44 8 57 8	1.2 +0 1.0 : +0 2.0 : +1 9.8 +	1.0	94 : 96 96 : 93 96	† 4 † 4 19 8	69 66 72 65	$^{12}_{13}$ $^{1}_{13}$ $^{1}_{12}$ $^{1}_{12}$	29   1 16	0.39 2.82 5.16	-3.71 -1.17	5.45 1.30 1.33	0 0	12 11 10	4 1	18	9 sw	.   B	rs, R. L. Fripp. irs, Margaret T. Sanders, , S. Weather Bureau, coland D. Powe, and Quattlebaum.
Conway Parlington Effinglino Fergusons	Horry	175	33 1 85	30.2 + +0.0 +	1.1	95	† 3 † 8 † 4	66 f <sub>68</sub>	1		6. 04 4. 95 7. 80 9. 41	-0.79 -0.10 +1.99 +2.60	1. 70 0. 85 1. 40 2. 62	0	13			10 sw	I	), C. McCail. Vm. B. Gillespie, lenry C. Savage.
Florence 1 Florence 2 Garnett	Florence	136 136 82 18	18	81.4 1 4 81.1 1 4 81.8 4			† 3 † 3 † 3 † 3 † 3 † 3 † 3 † 3 † 3 † 3	60 67 69	+ i	:	4 99	$^{+0.07}_{-0.35}$ $^{+3.59}_{+2.12}$	1.87	0	15	15	9 12	2 sw 7 sw 8		1. K. Gilbert. See Dee Experiment Sta. Jamer B. Robert. A. P. Hazurd.
Kingstree Marion Mars Bluff	Williamsburg Marion Florence Orangeburg	51 68 92 261 51	46 3 5 	30, 1 ' + 81, 1 79, 4	0, 3	96	31 † 4 † 3	66 64 64	···i	28	6.77	+1.08 +0.67 +0.92	3,00	(	18 0   10 0   11 0   15 0   11	17	11	11 s. 3 sw 10 sw 16 ne		Mrs. Ellen Scott. Alden F. Schell. Rosa R. Davis. F. S. Fisheries Station. Miss E. P. Ravedel.
Bunlui Society Hill Summerville	Sumter	97 192 75	14 ··· 37 ·* 30 ·*	79.0 + 81.7 + 80.1 -	-0,4	992 96 94 98	† 2 † 2 † 2 † 5	*64 69 66 67	† I	*25 25 77	6,90 6,06 4,48 12,29 6,10	+1.88 $+0.84$ $-2.62$ $+6.60$ $-0.18$	2,36 2,50	;	0 , 11	23 17 17 18	6	6 w 3 e. 8 w 13 sv		Floyd C. Martin, E. D. Fields, Jr. Clemson Coast Exp. Sta. W. Hampton Ramsey W. C. Hutson.
Thrision means and	. manpien	- 1			+1.2	98	† 3	63	1	31	6, 51	+0.21	- 5, 45		0 13	. 11	10	7 51	۶.	
Western Position.	nd manking																			
Aiken	Fairfield	761 293 3118	35 23 4	71.4	0.0	83 97	5 † 5	67 66 59 66	† 1 1	25 25 22 28 29	7, 19 12, 24 12, 22 20, 02 12, 57 8, 12	+7.11	4, 10 3, 50		0   10	)		5 Vi		Frank B. McCoy. H. H. Russell. Esther B. Owens. Cesar's Head—P. Mtn. Co L. M. Farker. Henry A. Brown.
Calhonn Falls Camden  Datawin Chappells Cherokee (near)	York	562 402 758	22   .	80, 0 80, 4		98	† 3	6t	i	28	10, 49 12, 19 19, 75	+5.59 +8.06	3, 41 3 : 3, 85 6, 40		0 1	3				James C. Faris. George V. Clamp. Spartanburg Water Wor J. C. Cornwell.
Chester	()Conce	850		79, 4 80, 4	+2.1 +0.8	97 94	25 7	60 69	9 21		8. 87 10. 19	+3, 11	3.95	2	0 1		14		1	U.S. Weather Bureau.
Crescent. Une West. Edgefield†	Spartaniourg Abbeville Edgefield	711	25			93	5 s		31	1	15, 93 13, 90 10, 23 13, 04 13, 36	+9.8° +6.7° +7.7° +7.7°	5. 81 7 5. 63 3 2. 44 3 5. 1 2 6. 5	5 2	0 1	4 6 7	18	E 8		Agent C. and W. C. Ry.
Greenville.	Greenwood	. 1039	44	77.9		94	† 3	67	† 1	27	14.68	+9.6	8   5.4	6	- 1	2 5	7	13 1		I Marvin Bowers.
Heath Springs Hogback Mountain Kershaw Landrum Laurens	Lancaster	. 569	26	77. 6 79. 7 76. 9		94 97 93 95	3 †2 8 †7	64 62	†21	83	15, 89	+6.5 +10.7	5   3.8	9 5	0 1	1 8 15 14 14 15	0	23		Blue Ridge Forests Co. Lin. W. Hamel. R. Harty of Wilds, D.D L. G. Roff.
l aurens	Laurens	3 589	10	80,01	-0.8	1	+ 3	64	1	3 28	i	+12.1	9 5.8	7		14 12	8		sw.	Miss Alberta Sease. Broad River Power Co

The desartimes from the normal temperature and precipitation are computed only for such stations as have tenor more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. Temperature and produce of the product of the day bulb; needs are entered too late to be included in means and summaries. "Temperature from observed readings of the day bulb; needs are considered readings. Hotsoftice addresses of these stations of Gastoni and Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawville; of Castar's Head, Greenville; of Beanfort (neer), Burton. "T. Precipitation is less than 0.01 inch of rain or melted snow.

95

† 2 65

†8: †8: †2:

98 † 3

77. 3 79. 4 76. 0 880. 0 79. 2 -0.3 0.0 -0.9 +0.8 +0.9

80.0 | +0.4 78.2 79.4  $\frac{-1.1}{+1.0}$ 

78.6 +0.3

Division means and extremes ......

Spartandonry Trenton Walhalla Winnsboro Wintbrop College

| Spartanburg | 875 | 51 | Edgetield | 620 | 35 | October | 1061 | 28 | Fairfield | 545 | 34 | Yark | 690 | 28 |

59

····i

 $\begin{array}{c} 1 \\ \dagger \ 1 \\ 23 \\ \dagger 21 \\ 22 \end{array}$ 

1

July, 1928. Aiken, mean temperature, page 26, should be 78,8; Calhour Falls, maximum temperature date, page 25, should be 4th; Clemson College, lowest temperature, page 26, should be 61 on 15th; Landrum, greatest 24-hour precipitation, page 26, should be 1.22; Laurens, precipitation departure, page 26, should be plus; Little Mountain, highest temperature, page 26, should be 65 on 6th; Winthrop College, greatest 24-hour precipitation, page 26, should be 0.50; Yemassee, number of days with rain, page 26, should be 11.

# Daily Precipitation for August, 1928.

	Draionge.		maker of the second									1	JW 2, 1)	i mo	uth.					-	-							
Stations.	taisins.	1	2 8	141	5 6	17	8	9   10	11	12	18	14	16	16	17	18 1	9 2	9 21		28	24	25   2	6 27	2	n 2	11   20	31	6,01
Eastern Portion. Bounfort(near). Back ville Chirleston ***. Cheraw (4). Conway (4).	Edisto			iiiii	10 02			30	6 . 16	.04	1.26	. 06	. 62	T.	. 63 .				. 50			1	1.1	7	N	10		1. 10, 2. 5, 10, 6, 04
Durllugion Eulogionn Ferguson 3 Florence 18 Florence 270	Saulce Pec Pec do				68 70 10 58 23				1. 25 2 1. 48 5 . 94	T. .25 .53 .08 .04	.16	. 03 . 11 ) 2. 62 ) . 02 . 02	.58 . 10 . 02 . 78 . 42	. (6) . 16 . 23 . 24 . 50	. 60 . 72 . 69 . 58 . 61	. 12 ; 1. 0 . 02 . 03 1. 2 . 10, 1. 0	25 .8 35 .7 26 .2 15 .2	9 9 9 .06 8 .07		.85 .51 .19 .11			46 27 1. 1					
Georgetown Georgetown Kingstree #h Marion Mars Bluff Orangeburg	Bluck				70 - 16			. Т.	2, 40	.60		.20	. 43	28	. 30,		11.5	30	. 67	T.			8	1 .1	5 G 1	5	1.40	8.11 7.27 5.45 6.7
	Cooper Snuice. Pee Dee. Ashley Wateree Ashepoo.			. 90 1. 0 . 61 1. 0	00 . 10 23 . 42 06 . 19 25	L	•	1, 50 1, 10 17 	1, 62 . 62 2, 36 . 90 . 47	. 60 . 07 . 34 . 70	. 30 . 61 . 08 . 08 . 201	. 40 . 46 1 T 26	. 60	20 12 08 15	44 · · · · · · · · · · · · · · · · · ·	14	2 1. 30	.23	1.96	. 56 . 03		T. 1.	5	2. ()	6 5 .0 5 6 8 .00	9		7, 86, 6, 96, 6, 96, 1, 48, 12, 29, 6, 10
Alken Anderson Blafrs [4] Creser's Hend Cullionn Falls [6] Canden [6]	Edisto * Savannah Broad Saluda Savannah Wateree *		15	1.3		.52			2.37 1.53 3.50 3.24 2.10	1 .91 .75 .65 .23	. 10 1.	. 67 1. . 73 4. 1 1	.61 . 19 1. .60 1. .00 . .25 4.	05 25 42 82 97 1.	10 78	6	5 . 69 5 . 69 4		• • • • • •	i	. 60r . 75.	.52 2.0 2.0 36	0 .0>	. 1:	2		.29.	7, 1; 12, 24 12, 5; 20, 10; 12, 57 8, 10
Cherokee (near) Chester Cleusan College Columbia ***	Saluda Broaddo Savatunah Congaree			.52 .6	92.00		1. 4	50 9 ,08	3. 41 3.85 6. 40	.70	502	33 1. 63 5. 55 1.	56 3. 86 1. 92 2. 45	25 60 69	60	02 .06	.32		.23,		16,	711 .3	0: I: .34 S:	118	3 . 6:			10, 49 12, 19 19, 75
Due West*** Edgefield ## Gastan Shoots ## Greenville *** Groenwood ##	Enorce Savaunuh Savaunuh Brond Sainda do	Ť.	T.	T .00 .2 T.	2 8 .77 4 .47 29 1 .87	.35 T	50 72 . 01	5, 44 2, 96 2, 21	. 69 3, 50 4, 50 1, 60 5, 03	.01 .65	r. 1.	91 5. 79 5. 02 2. 	88; 46 1. 6 40 1. 6 60;4. 6 81, 60 5.	40 01 70 62 36 16 1	43, 1	1.29	.90 -45	.02	.21		.03	08 05 27 .0 04, T.	.00	.08			.56 .62	15 93 13,50 10,23 13,64 13,26
Kershaw di Laurens Laurens	Broad Lyuches Broad Saluda		i.	1. 3 52 . 0	12.89 411		1.21	32	2. 45 2. 83 3. 90	. 18	07	20 79 3.	34 34 4 85 1 . 6	12 . 8	34	6' .98	.48	,1	. 60 . i.	84	34i .		. 10				15	7.98 10.64 15.09 14.70
Lockhart Nowberry Pelzer % Sahda Santnek Spartauburg %	Brosd Sulinda do do Broad		.08	61 1.37 r. T	1. 19	. \$2 1 . 18 	s	1.30 8 .894 .796	3. 42 3. 60 3. 22 1	85 45 83 T.	03 1.	70.2.	13-1.0	7		-1.85						70	. 02	Υ.				17, 16
Treuton	do Edisto Savaunah Broad Satawla	:: : i i i i i i i i i i i i i i i i i	.64	r. 2, 19 13 , 12	.03	9x 03	Т.	3, 21	T. 31	r. i	1.	1. 1 89,1.2 34 5, 8	07.0 28. T. 0-1.4	g		45	. 30- -21	Ť	r	 51	40	.15						16.59 11.96 12.88 11.18 10.75

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the three of observation. El Precipitation neasured in the norming; amount then recorded is for the preceding 24 hours, \*\*\* Regular Worther Bureau station; precipitation included in the next following measurement. Is parate dates of falls not recorded. T. Trace, or less than 0 of juch.

# COMPARATIVE DATA FOR AUGUST.

									THE POIL I	00051								
	Tempera	hire.	Precipi	lation.	Averag	e num days.	ber of	ling lirec.		Ten	nperatui	44.	Precipi	tation.	Average	e num days.	berof	in the state of th
Year.	Mean. Highest	Lowest.	Average	Average days with 0.01 lineh of more.	Clear.	Partly cloudy.	Cloudy.	Preva! wind c	Year.	Mean.	Highest.	Lowest.	Verage.	Average lays with 0.01 inch or more.	Clear.	Partly elouis.	houdy.	wind din
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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

66 Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 9-26-28-900

# MATOLOGICAL DATA.

# SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol. XXXI. Columbia, S. C., September, 1928.

#### GENERAL SUMMARY.

The month, being one of the stormiest Septembers of redamage in crops, forest and shade trees, and property approximating \$3,187,350. Five persons were killed and 11 injured in railroad wrecks at culverts incident to washouts on the 5th warnings approximated \$101,000. and 18th. One person was killed by lightning on the 23d. The temperature averaged considerably below normal.

All crops reflected the effects of storm and flood stress. Corn in lowlands, left from August floods, was practically ruined, and late corn recovered only slowly. Conditions were particularly bad in sections of the coastal plain, where the rainfall was heaviest. Cotton, likewise, suffered materially, the rains reducing the quality of lint and making picking difficult and slow. The forage harvests were delayed until toward the closing week, when working and growing conditions improved. Sweet potato digging was proceeding as the month closed.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 43 stations, was 72.1°, or 2.3° below the normal. The highest temperature was 96° at Calhoun Falls on the 14th. The warm periods were from the 12th to 16th, inclusive, and on the 21st and 22d. The lowest temperature was 38° at Caesar's Head on the 26th and 27th. The cool periods were from the 1st to 8th, 18th to 20th, and 23d to 27th, inclusive.

# PRECIPITATION.

The average for the Section, 53 stations reporting, was 12 53 inches, or close to the average of the wet September of 1924, and but 2.16 inches below the previous highest monthly average in July, 1916; of this amount, about 35% occurred during the excessive rains about the 5-6th, and about 47% from the 17th to 19th. The rainfall was very badly distributed as to areas and amounts. The measurements ranged from near 4 inches in a small section of the higher Piedmont to an apex of over 27 inches in Marion County. The greatest local monthly amount was 27.06 inches at Marion; least local monthly amount, 3.94 inches at Greenville. The greatest 24-hour rainfall was 9.00 inches at Darlington on the 18th and 19th. The average number of rainy days was 43% above normal

Killed by Lightning.—Near Chesnee, 23d, Wallace Blackwell, a youth, while sitting on the porch of his home.

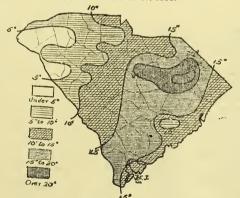
Damage by Winds not Tornadoes .- During the passage of the tropical storm along the coast on the 18th, the general damage from whipping winds was uniformly reported to exceed the damage of the August storms, and the aggregate losses to crops, trees, etc., have been conservatively estimated at about \$1,500,000, of which about \$500,000 approximates the value of shade and forest trees damaged or ruined in the central sections and the coastal plain.

#### RIVER CONDITIONS.

Heavy to excessive rains in the upper reaches on the 5-6th were followed by high waters in all streams of the Section, and the general situation was materially aggravated by extraordinary rainfall and high floods incident to the tropical storm of the 17-19th. The mouth closed with the lower streams of the Santee and Pee Dee Systems still in flood. The Black River at Kingstree crested at 18.0 feet on the 21st, the highest of record at that point. The flood losses in the Santee River District cord, proved practically as disastrous as August in the way of have been conservatively estimated at about \$1,607,350, and excessive rains, floods, and whipping winds, with an aggregate the value of property saved by flood warnings approximated 880,250. September flood data for the Pec Dec River District are not yet available, but the flood damage in August has been estimated at \$12,600, and movable property saved by flood

Killed in Railroad Wrecks Incident to Washouts.—At culvert, near Saluda River, a few miles above Columbia, night, 5th, 5 persons killed and 11 persons injured. At enlyert, near Tindall Station, south of Sumter, 2:30 p. m., 2 persons killed.

#### CHART SHOWING TOTAL PRECIPITATION DURING PERIOD. SEPTEMBER 1 TO 30, 1928



ERRATA.

August, 1928.—Winnsboro, total precipitation, pages 30 and 31, should be 10.68. MISCELLANEOUS DATA FOR SEPTEMBER, 1928.

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Stations	Baromete	Mean.	Highest.	Lowest.	Total.	Growest 24 hours.	Average hourly velority, miles.	Prevailing direction,	8 a. m.	Noon.	S p. m.	Percentage sible sun
Asheville, N. C. Augusta, Ga. Charleston, S. C., Charlotte, N. C. Columbia, S. C. Due West, S. C. Greenville, S. C. Savannah, Ga. Wilmington, N. C. Ments and ex- tremes.	30, 04 30, 66 29, 99 30, 03 30, 01 30, 05 30, 02 30, 02 30, 02	63 5 74 7 75, 8 68, 8 73, 0 70, 1 69, 8 75, 8 73, 4	85 95 92 92 92 91 91 91 92 95	58 47 51 46 48 60 53	4, 85 7, 47 14, 36 11, 13 14, 64 4, 03 3, 94 16, 87 13, 41	4. 74	5, 1 4, 3 9, 0 3, 8 5, 3 6, 6 6, 5 9, 3 5, 2	nw. ne. ne. ne. ne. ne. ne. ne. ne.	91 88 88 90 87 91 83 89 91	58 60 76 76 63 64 70 71	76 76 89 80 76 72 83 85	53 64 54 58 60 56 64 47 59

3-cup anemometers used since January 1, 1928.

Climatological	Data for	September.	1928.

		Climatological Data for September, 1928.  Temperature, in degrees Fabr.   Precipitation, in inches.   N																		
			reromi.	ı	empera	ture, ir	ı degr	ees Fa	hr.		Precip	tation,	in ine	hes.	Num	ber o	of day	ys.	etion	
Stations.	Counties.	Elevation, feet.	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall,	(0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing direction or wind.	Observers.
Eastern Portion.																				ar. D. I. Weinn
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Conway	Horry	25 175 106 63	38 83 37 42	74.2 *71.4 74.8	-0, 6 -3, 2 -0, 1	94 *95	14 =14	50 °47 49	27 †25	28 *33 	14.63 20.53 25.30 17.77	+9.75 +16.53 +21.14 +13.89	3. 40 9. 00 7. 50 8. 10	0 0 0 0	12 13 12 10	17 14 	8 	13 13 	se.	Panl Quattlebaum. D. C. McCall. Wm. B. Gillespie, Heury C. Savage.
Florence 1	Florencedo	136 136 82 18	46 13 10 35	72.9 °74.7 76.0	-0.4 -2.7 -0.2	92 °95 93	†14 14 †13	47 °51 49	25 25 25	35 °29 29	21. 33 20. 96 16. 38 14. 78	+17.26 +16.89 +12.55 +10.37	8,22 5.00	0 0 0 0	19	11 14 9 18	8 8 11 4	11 8 10 8	ne. se.	H. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. A. P. Hazard.
Kingstree	Williamsburg Marion Florence Orangeburg	54 68 92 264 54	46	78. 4 72. 8 72. 8 171. 4	-1.3  -2.7 -2.9	90 93  92 88	†13 14 † 4 † 3	48 45  49	25 †25 25 25	29 33 	17. 95 27. 06 20. 02 16. 99 9.85	+13.78 +13.32 +5.19	8.50 8.90 4.52	0	11 12 14	17 11 10 10	1 8  10 9	12 11 10 11	s. ne. ne. e.	Mrs. Ellen Scott. Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel.
Pinopolis	Sumter	97 192 75 249	14 37 30 38	70. 2 75. 4 73. 8 74. 8	-3.4 +0.1 0.2	93 93 93 94	14 †14 14 14	*45 52 49 50	24 27 25 25	*34 31 29 29	18.89 14.08 16.15 17.82 15.75	+15.11 +9.22 +11.45 +14.00 +11.56	5.86 5 7.80 6.10		11 14	17 9 19 10		13 16 8 20	w. e. w. ne.	Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta. W. Hampton Ramsey W. C. Hutson.
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Western Portion.																				
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Calhonn Falls Camden Catawba	. Kershaw	. 22	2 78 2 22	72.	-1.5	94	16				23 29 11.47 10.56		2 3.9	0	0 10		1 2			Jumes C. Faris. George V Clamp. Spartanburg Water Works.
Chappells	Spartanburg Chester	. 75 . 48 . 85	8 7 6 0 36	67. 68. 71.	4 -1.5	90 95 92	†18 †14 † 8	45	128	5 30	8.18 9.90 3.97 14.64		4. 0 13 1. 6 19 5. 5	5 0	0   3   0   1   1	2 2	1   1	10	sw.	Prof. F. D. H. Calliont. U.S. Weather Bureau.
Crescent Due West Edgelleld†† Gaston Shouls†† Greenville Greenwood	Spartanburg Abbeville Edgefield	68	0 25 39 4-	69.	8 -0.8	91	14	48	2	5 27	9. 63 4. 03 10. 42 3. 94 4.74	+7.0 +0.	07 3.5 13 1.8	3	0 1: 0 1: 0 1: 0 1:	0 i	3 8		ne.	U. S. W. B. Aerologichi Sta. Agent C. and W. C. Ry. S. C. Lt., Power & By. Co. U. S. Weather Bureau, M. M. Calhonn,
Heath Springs Hogback Mountain Kershaw Landrum	Lancaster	50 50 10	38 20 25 00 1:	68. 2 70. 68.	8 -4.8 6 -3.6 4 -4.6	90	i i	4 4 5 4	5 †2 4 2	5 36	14.41	+12.	35 4.5 55 2.	27	0 1	9 2 0 1	1	0 1:	e. 7 w. 11e.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Hamel. R. Hartwell Wilds, D.D.S. L. G. Roff.
Läurens Little Mountain, Loekhart†† Newberry Pelzer Saluda	Newberry Union Newberry Anderson Saluda	. 7 3 . 5 . 8	11 3 36 2 50 2 50 2 36 2	71. 4 71.	6 -4.	94	i i	5 4	6 †2	5 3	7.6 4.3 8.4	0 +4. 8 +0. 5 +5.	33 3. 77 1. 14 3.	38 08 08	0 1	9 0	i7	3 i 2	5 s. 0 w. 6 sw. 9 e.	Miss Alberta Sease. Broad River Power Co. John H. Baxter. Joshua Y. Jones. W. S. Crout. E. W. Jeter.
Spartanburg Trenton	Spartanhurg Edgetield Oconee	8 6	12 3 75 5 20 3 61 2 45 3 90 2	1 67 5 73 8 68 4 #71	.7 -4. 4 -1. 7 -2. 9 -1.	6 96 9 95 9 95 8 89	0 1 5 1 3 †1	14 4 15 5 14 8 14 8	12 10 18	25 3 25 2 26 4 25 82 25 82	8   12.0 1   4.0 7   11.5	6 +8. 4 -1. 3 +7. 9 +6.	.76 3. .09 1. .97	15 75 65 36	0 0 0 0	8 7 8	13 1	5 10	8 W. 8 ne. 6 ne. 8 s.	W. T. Clawson.
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Section means at	d extremes					- 0		1			1_	1		1	. 1	1	2000	vd.)	but all	complete reports are used in

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, b, 0), appearing in the table indicate number of days missing; (or example, b represents two days missing, etc., and the determining section or division means. Reference letters (\*, b, 0), appearing in the table indicate number of days missing; (or example, b represents two days missing, etc., and the determining section of the day limits to the dry lumb; means are compared to the day lumber of the dry lumb; means are compared to the section of Casar's Head, Greenville; of Reaufort (near), Eurton.

The recipitation is less than 0.01 inch of rain or melted snow.

# Daily Precipitation for September, 1928.

	Druhmge-	is.																															
Stations.	basms.	1	2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	80	81	Total.
Eastern Protion, Benufort(near), Blackville []  Clurleston *** Cheraw []  Conway []	Coast Edisto Coast Pee Dee Waccannaw	T. .01 .64	. 17 8. 00 .01 . 16 1. 94	1.30 1.10 1.42 1.84	1, 40 , 48 , 53 , 48	2. 15 2. 50 3. 85 1. 63 3. 40	. 90 1. 18 1. 12 4.69 . 43	,01				.54	T.	T.	т.		. 14	1.31	5.81 3.00 6,72 1.37 2.80	. 34 1. 40 . 63 5, 11 3, 25	.33	 T.	· 28	. 73	.10				T.	.04	.08		12, 62 13, 68 11, 30 15, 19 11, 63
Darlington	Pee Dee	2, 154 	.30 2.65 .47 .50	1, 35 1, 35 2, 00 2, 10	. 30 1. 10 . 81 1. 58 1. 35	3, 30 4, 00 2, 19 2, 86 2, 62	2, 48 1, 80 , 91 1, 72 1, 82	. 05 . 20 . 23 . 06					.42	. 27					3.50 3.80 8.10 8.21 3.80	9, 00 7, 50 4, 13 8, 96 8, 22	.03	.11		.36	T .09								20, 53 25, 30 17, 77 21, 33 90, 96
Garnett. Georgetown Kingstreo       Marion Mars Blaff Orangeburg	Savannah Const Black Pee Dee do Edisto	. 05 . 37 1. 78 . 11 . 02	. 18 1. 05 1. 35 . 98 2.00 . 49	1.30 .15 1.05 1.00 .73	. 21 . 15 . 70 3. 40 . 75 3. 20	2.58 4.60 2.50 2.20 8.70 2.15	2.35 .60 .25 6.50 .75 2.05	. 03 .20 .27 .08 T.	Ť			T26	.40		. 07	.08	01	5.00	2.90 7.47 4.20 8.50 2.80 2.76	 6, 90 2, 10 8, 90 4, 52	. 63	.30		. 20	. 23					. 12	.01		16, 35 14, 79 17, 95 27, 06 20, 62 16, 99
Pinopolis Rimini	Cooper Suntee Pee Dee Ashley Wateree Ashepoo	. 25	.17 .26	2,00 .38 .01	. 10 2. 80 . 17 . 83 . 80	.50 3.40 1.50 2.00 1.62	. 40 1. 65 2. 76 1. 08 3. 50	2.63 .05 .66			.40	.45	. 55	. 50				3.00	2.00 3.90 2.15 7.30	4. 20 5. 80 3. 09	.20			.35	.28					.05	. 27		9, 85 15, 89
Western Portion. Alken Anderson Blairs	Wateree	.39	1. 92 2. 10	.09 .20	. 25 1. 23 . 07 . 35	1.20 2.70 1.10 2.08	. 67 . 62 3, 15 1.01 5, 40	. 06	. 42				.35	. 19		1.30	.05		7.03 2.05 1.10 .76 .22	. 13 . 20 2, 90 	.10			. 13	.09								9, 60 8, 33 4, 63 23, 29
Cutawbu       Thapperis       Cherokee (near)  Thester  Tennson College  Columbia ***	Catuwba Saluda do do Savannah Congaree	. 55 . 10 T.	.27 .48 .44 .45 .55	1.30 16 .28 .32 .20	. 15	1. 10 1. 30 2. 74 2. 42 1. 65 5. 20	2. 95 2. 03 . 47 1. 05 . 50	.10	.30			. 61		.01			3, 50 1, 23	1.00	3.90 1.20 1.45 1.36 .57	. 15 1. 54 . 68 . 26 . 20				61						. 18	.71		11.47 10.56 8.18 9.90 3.97
Prescent.  Due West***  dagefield	Enoree Savannah Savannah	. 35	. 46	. 08	1. 02 . 26	.57 .97	. 10	i	.06		::::	T.	.03			.26	∵ii	4. 90 .02	1.89 1.24	. 17													9, 63 4, 03 10, 42 3, 94 4, 74
feath Springs fogback Mountain Cershaw     audrum aurens	Wateree	.86	. 34 1. 68 . 88 . 28	. 25 . 33 . 46 . 47	.93 2	. 52 . 78 . 52 . 89	. 35 2. 94 . 73 . 60	.07	т.			. 15	30	. 04		.41			5. 03 1. 55 1. 52 2. 05	. 53 1. 27 . 54 . 46	.06	-16									.41		11.26 14.41 8.01 5.06
ittle Mountain	Saluda Broad Saludadodo Broad	.08	.34 .04 1.46	.56 .54 .69 .76	.02 .10 2 .02 1	.00 .96 .23 .57	.60 .78 .25 2.08	.04					.02 T.	. 05		.14	. 26 1. 79	.08	.58 1 3.03 2.97	. 47 .08 .33 .71				.05							Ť.		7, 60 4, 38 8, 45 10, 52
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Except as otherwise indicated, observations are generally made late in the afternoon, near smost, and precipitation recorded is for the 24 hours ending at the time of observation. IIII Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight. \* Precipitation included in the next following measurement. ISeparate dates of falls not recorded. T. Trace, or less than 0.01 included.

#### COMPARATIVE DATA FOR SEPTEMBER

						CO	MPAR	ATIVE	DATA	FOR SEP	TEMB	EK.							
	Te	mperatr	ıre.	Precip	itation.		e unm days,	ber of	direction.		Te	mperati	ire.	Precip	itation.	Averas	ge num days.	ber of	ing irec-
Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevat wind c	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di
\$37 \$38 \$38 \$39 \$91 \$91 \$92 \$92 \$93 \$91 \$91 \$91 \$91 \$91 \$92 \$93 \$93 \$91 \$91 \$91 \$91 \$92 \$93 \$93 \$94 \$95 \$95 \$95 \$95 \$95 \$95 \$95 \$95	72. 2 69. 6 72. 1 72. 9 74. 3 72. 5 76. 0 75. 0 76. 0 77. 1 78. 1 72. 1 75. 8 76. 8 76. 0 77. 8	101 93 98 98 92 93 100 106 105 100 96 102 100 98 98 98 99 99	34 31 40 49 50 46 52 35 39 42 48 34 45 46 43 41 44 49 55 46	1. 12 9. 86 3. 34 7. 84 2. 66 6. 41 4. 42 6. 51 1. 29 2. 94 4. 06 2. 91 4. 06 3. 62 2. 83 4. 64 3. 62 2. 46 1. 48 5. 55 5. 91 4. 85 5. 91 4. 85 5. 91	13 5 16 17 12 4 5 4 7 6 6 5 6 8 5 5 6 8 7	14 12 17 17 17 19 15 13 17 19 16 10 13	77 100 88 87 70 100 88 88 88 89 77 77 88 122 111		e. ne. * se. ne. ne. ne. ne. ne. ne. ne. ne. ne. n	1909 1910 1911 1912 1913 1914 1915 1916 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928	72. 0 75. 8 78. 9 77. 0 71. 7 71. 3 75. 9 72. 2 71. 2 69. 8 74. 1 75. 5 80. 0 75. 2 75. 5 81. 7 77. 6 77. 6	98 103 100 109 99 101 102 99 98 96 99 100 104 100 99 100 111 101 96	39 46 50 47 40 43 43 43 35 40 45 46 47 57 47 50 41 55 52 40 38	3. 74 3. 10 3. 33 5. 91 4. 66 3. 63 2. 38 2. 56 5. 75 5. 42 1. 15 2. 67 12. 71 1. 86 2. 29 1. 63 12. 53	77 8 11 9 7 5 7 10 7 7 7 6 6 3 6 6 15 5 4 4 3 10	13 15 13 10 14 14 16 16 17 12 12 16 19 18 16 12 17 17 17 18	9 12 13 17 7 9 8 8 8 5 5 6 8 8 8 9 5 9 7 8 5	8 3 4 4 11 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ne, ne, sw. e. ne. ne. ne. ne. ne. ne. ne. ne. ne.
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<sup>\*</sup>Also e. and s.

Daily Temperatures for September, 1928.  Stations. 1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16   17   18   19   20   21   22   23																						1								
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'aesar's Head/ Minimum	70	68 59	66 74 57 84	72 57	70 59 60 58 67 80 64 69	68 56 66	61 70 59 80	74 60	83 65 68 85 67 86 64	81 62 75 62 86 63 90 63	77 60	87 71 87 72 79 61 90 63	71 89 67 78 63 92 69	82 63 96 69	70 64 95	89 70 85 67 80 60 92	78 61 85 68 83 70 83 63	60	61 49	3 86 5 67 60 8 11 6 10 70 70 77 48 852 852 5 5 88 88 88 88 88 88 88 88 88 88 88 88 88	59 75 57 58 59 87 67 87	62 60	72 56 72 51 64 89 76 54 77 53 70 45	77: 51: 77: 46: 67: 40: 80: 47: 45: 76: 41:	77 56 72 49 63 38 76 46 79 44 71 39	76 54 78 49 69 85	79 59 81 57 70 89 85 49 86 48 77 48	79 60 81 61 72 50 85 57 88 52 81 52	62 62 62 69 54 82	. 70 54
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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example. Fepresents two days missing, etc.

Managements are real in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

t Raleigh, 10 23 28 - 960

# U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

Vol. XXXI. COLUMBIA, S. C., OCTOBER, 1928.

No. 10.

## GENERAL SUMMARY.

The month generally was very mild, incident to a prolonged period of abnormally high temperatures, and the precipitation average was much below normal.

The relatively dry weather during the month was favorable for harvesting late corn, sweet potatoes, and forage. Winter seedings of wheat, oats, and rye developed fair stands under the influence of occasional light rains. The cotton crop was all open toward the close of the month, and picking was practically finished, except in the higher sections of the Piedmont. All were in good condition, but the stand of spinach was poor.

#### PRESSURE.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was 30.16 inches. The highest pressure was 30.49 inches at Due West and at Charlotte; N. C., on the 27th; the lowest pressure was 29.69 inches at Asheville, N. C., on the 23d, and in he Section proper, 29.75 inches at Greenville on the same date.

# TEMPERATURE.

The monthly mean for the Section, determined from reports of 39 stations, was  $66.4^{\circ}$ , or  $2.7^{\circ}$  above the normal. The Halos-Lunar: Greenville, 31; Walhalla, 26. Solar: Due West. 21, 22, 27; Greenville, 21, 27. vas an extended warm period from the 4th to the 23d, inclubusive, when the daily mean temperatures ranged from near normal to 16° above. The lowest temperature was 32° at Caeston and the lowest temperature ar's Head on the 31st. The cool periods were on the 1st and 2d and during the closing week, with daily mean temperatures o to 12° below normal. Light frosts were general, except long the immediate coast, on the 25th, 26th, and 27th, and a cilling frost occurred at Caesar's Head on the 31st.

## HUMIDITY.

The mean relative humidity, determined from reports of 9 egular Weather Bureau stations in and surrounding the Secion, was as follows: 8 a.m., 85%; noon, 60%; 8 p. m., 66%. The highest percentages occurred along the coast, and the owest, in the interior.

### PRECIPITATION.

The average for the Section, 51 stations reporting, was .91 inches, or 1.03 inches below the normal. The monthly ainfall occurred in four periods, and, though generally light, vas fairly well distributed. Excepting in small areas of the pper coastal plain and in the Piedmont, the total amounts anged downward from 2 inches to less than 1 inch in most sec-

tions. The greatest local monthly amount was 6.61 inches at Caesar's Head; least local monthly amount, 0.62 inch at Summerville. The greatest 24-hour amount at any station was 3.70 inches at Caesar's Head on the 15-16th. The average number of rainy days was normal.

The prevailing wind was from the east. The average hourly velocity, determined from 9 anemometer records, was 6.4 miles. The highest average velocity was 9.6 miles per hour at Charleston; the lowest average velocity was 3.6 miles per hour at Charlotte, N. C., and in the Section proper. 5.3 miles per hour at Columbia. The highest velocity for any 5-minute period was 27 miles per hour from the north at Asheville on the 23d, cereal plowing was retarded by hard soil in some sections, but and in the Section proper, 25 miles per hour from the north at Charleston on the 24th and from the west at Greenville on

# SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 autocrops were safe from frost. Fall cabbage and beans on the coast matic records, was 233.0 hours, or 66% of the possible amount. The average number of clear days was 17; partly cloudy, 8, and cloudy, 6, as against normals of 18, 6, and 7 days, respectively.

#### RIVER CONDITIONS.

In the run-off from the September rains, the Santee River fell below flood stage at Rimini by the 14th, and at Ferguson, by the 16th. The Pee Dee River at Mars Bluff fell below flood stage by the 12th. Late September reports indicate that the flood damage approximated \$250,000 in the Pee Dee River District, and the value of movable property saved by warnings has been estimated at \$250,000.

#### MISCELLANEOUS PHENOMENA (dates).

Trenton, 9, 15; Winnsboro, 5, 7.

#### ERRATA.

September, 1928.-Due West, greatest 24-hour rainfall, page 34, should be 1.25; minimum temperature, 16th, page 36, should be 68. Landrum, monthly mean temperature, page 34, should be 69.0.

# MISCELLANEOUS DATA FOR OCTOBER, 1928.

i	r, sea	Tem degr	perati ces F	nre. ahr.	tic	ipita- in, hes.	Win		re	Mear elati midi	e a	e of pos-
Stations.	Barometer,	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage of pc
Asheville, N. C Angusta, da Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga Wilmington, N. C. Means and ex-f	30, 17 80, 15 30, 15 30, 17 30, 16 30, 20 30, 16 30, 14 30, 17	58.2 69.2 70.4 64.6 67.2 65.0 64.8 70.4 67.2	82 90 86 87 88 87 86 86 89	85 43 46 39 41 39 46 45	3. 77 1. 91 1. 07 1. 13 1. 70 1. 28 1. 84 0. 77 1. 21	1. 68 1.02 0. 58 0. 48 0. 88 0. 88 0. 83 0. 83 0. 52	*0 4.2 9.6 3.6 5.3 6.8 7.0 9.1 5.3	se. ne. ne. ne. ne. ne. ne. ne.	89 85 82 89 85 86 79 86 83	56 52 67 72 58 56 59 64 59	72 68 89 78 65 68 78 80	54 70 72 62 68 70 68 57 77
tremes ( )	30.16	66 3	90	35	1 69	1.68	6.4	ne.	85	60	66	66

<sup>\* 3-</sup>cup anemometers used since January 1, 1928.

#### Climatological Data for October, 1928.

					Clim	atolo	gical	Date	a for	Oct	ober,	1928.								
			record,	2	empera	ture, i	in deg	rees F	ahr.		Precip	itation.	in ine	hes.	Num	ber of	f da	ys.	tion	
Stations.	Counties.	Elevation, feet.	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelled.	With precipit on (0.01 in. or more).	Clear.	Partly cloudy.	Clouds.	Prevailing direct of wind.	Observers.
Eastern Portion.																1				
Beaufort (near)‡‡, Biack ville Charlestou Cheraw	BeaufortBarnwellChurlestonChesterfield	21 296 48 144	47 44 57 46	69. 4 70. 4 64. 5	+1.6 +2.6 +2.2	87 86 87	6 10 14	44 41 46 35	26 31 30 26	35 21 39	1.27 0.70 1.07 2.20	$     \begin{array}{r}       -2.01 \\       -2.05 \\       -2.20 \\       -0.56     \end{array} $	0 60 6.50 0.58 0.88	0 0 0 0	7 2 3 3	18	7 18	- 6 - 2	e, ne.	Mrs. R. L. Fripp. Mrs. Margaret T. Sanders. U. S. Wenther Bureau. Roland D. Powe.
Conway	Horry Darlington Florence Orangeburg	25 175 106 63	38 33 37 42	67.8	+3.0	90	† 6	38	27	38  38	3.20 1.24	-1 52 +0.27 -1.72	1.30 1.50 0.36	0 0 0	4 7	28	3	5	se.	Paul Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1 Florence 2 Garnelt Georgetown	Florencedo	136 136 82 18	46 13 10 35	67. 1 68.8	+2.9	190	18	39 6;;8	27 27	37 -641	2,78 2,92 1,16	-0.24 -0.05 -1.32	1.66 1.16 0.39	0 0	3 3 7	20 21 12	9 8 17	2 2 2	ne. se.	H. K. (lilbert. Pee Dee Experiment Sta. Manier B. Robert. A. P. Hazard.
Kingstree	Williamsburg Marion Florence Orangehurg Berkeley	51 68 92 261 54	46 3 5 12 81	68. 2 67. 0 68. 1 66. 8	+3.8 +2.3 +2.7	88 91 90 86	† 6 '6 18 † 8	37 25 39 39	27 27 27 27	38 37 	2.23 3.44 2.74 1.92 0.96	-0.53 -0.10 -2.02	0.70 1.50 1.12 0.78 0.70	0 0 0 0	6 5 5 5 5	28 14  15 25	9 9 0	8 7	s. e. ne.	Mrs. Ellen Seott, Alden F. Schell, Rosa R. Davis, U.S. Fisheries Station, Miss E. P. Ravenel.
Rimini Society Hill Summerville Wedgefield Yennssee	Sumter Darlington Dorchester Sumter Hampton	97 192 75 249 24	14 37 30 28 39	67. 3 69. 8 68. 6 69. 2	+4.7 +4.1 +4.4 +3.6	*90 92 90 89	6 7 †14 6	f38 36 42 38	†25 27 †25 27	f82 41 32 58	1,45 2,02 0,62 1,35 2,38	-0.98 -0.82 -2.71 -1.36 -0.45	1.00 1.02 0.23 0.80 1.47	0 0 0 0	7 3	24 17 24 13	0 5 4	7 9 3 14	w. e. w. se.	Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta. W. Humpton Ramsey W. C. Hulson.
Division means and	extremes			68. 1	+3.3	92	7	35	†26	41	1.87	-1,11	1.66	0	5	18	7	6	e.	
Western Porlion,																				
Aiken Anderson Blairs Cesars Head‡‡ Callionn Falls Canden	Fairfield	527 764 293 3118 508 222		68.2 65.3 57.2 65.8 67.4	+4.3 +2.2 +4.5	87 87 79 91 92	† 5 14 14 14 14	32 40 37	81 †26 31 †25 †26	29 34 23 35 43	1.41 1.63 1.63 6.61 2.41 2.10	-1, 26 -1, 09 -0, 86 -0, 39 -0, 51	0.86	000000000000000000000000000000000000000	8 8 6 5	21 24 10 16	1 0 9 3	9 7 12 12	re. w.	Frank B. McCoy. H. H. Russell. Esther B. Owens. Casar's Head-P. Mtn. Co L. M. Parker. Heury A. Brown.
Catawba Chappells Cherokee (near) Chester Clenson College Columbia	Spartanburg Chester	562 402 758 487 850 351	23 6 36	*61.8 65.4 67.2	+8 8 +2.9	*87 88 88	14 9 14	*34 34 41	†27 80 81	a41 41 28	1. 13 2. 58 0. 91 2. 26 1. 70	-2.19 +0.07 -1.04 -1.15	1. 35 0. 46 0. 95		5 7	23 15 14	1 7 12	9 5	el ne.	James C. Faris. George V. Claup. Spartanburg Water Works. J. C. Coruwell. Prof. F. H. H. Calbonn. U. S. Weather Burean.
Crescent. Due West Edgefield †† Gaston Shoals ‡† Greenwood	Spartanburg Abbeville Edgefield Cherokee Greenville	680	14 25 44	65.0 64.8 65.8	+2.9 +4.6 +3.8	87 86 90	6 14 15	39 39 38	25 81 27	32 26 35	1.21 1.78 1.70 1.07 1.84 2.11	-0.05 -0.81 -1.89 -1.30 -0.72	1.15 0.81 0.88	0	6 8 6 8	14  15 17	10	7  8 14	e. ne. w.	Broad River Power Co. II. S. W. B. Aerological Sta. Agent C. and W. C. Ry. S. C. Lt., Power & Ry. Co. U. S. Weather Bureau. M. M. Calbonu.
Heath Springs Hogback Mountain . Kershaw Landrum Laurens	Laneaster	568 3028 500	26 12 13	64. 2 65. 7 64. 0 65. 6	+1.8 +1.7 +1.7 +3.2	86 90 88 89	†13 14 14 † 6	38 37 35 36	26 27 27	39 86	1.47 1.18 1.68 1.47	-1.05 -0.93 -2.63 -1.63	0.67 0.67 0.86	1 (	3 2	15 14 18 18	4  6 9 12	12 11 4 1	e. w. sw.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Hamet. R. Hartwell Wilds, D.D.S. L. G. Roff.
Little Mountain Lockhart!† New berry Pelzer Suluda Santuck	Newberry Union Newberry Anderson Saluda	502 850	2 24 24 24 26	64.9 66.0 66.0 64.6	+0.9 +2.6 +2.7 +2.7		†17 14 †17 6	34 37 43 33	26 †26	37	1.38 2.29 2.04 1.55 3.44	-1, 48 -0, 21 -1, 38 -1, 29 +0, 38	0.92 0.72 0.88		5 7	19 19 18 17	7 5 17 13	5 7		Miss Alberta Sease. Broad River Power Co. John H. Baxter. Joshna Y. Jones. W. S. Crout. E. W. Jeter.
Sparinuburg Trenton Walladia Winnsboro Winthrop College ‡‡	Spartaulurg Edgefield Ocouce	878 620 106	5 51 35 28 5 34	62.2 67.9 63.0 *66.1 64.8	+1.2 +3.3 +2.4 +3.7 +2.4	87 89 89 88 90	14	140	31 †26 †27	31 40 133	1. 48 1. 72 3. 85 0. 99 1. 20	-1.06 -1.2; +0.49 -1.99 -1.49	0.64 0.90 2.00 0.55 0.60	3	3 7 9 8 9 8	14	12 8 13 20	4	ne. ne.	. M. II. Daniel. Mrs. S. E. Long. II. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
Division means and Section means amb	extremes	1		66.4	+2.3		l.		Y		1.93	-1.10 -1.00		1	0 5		8	4	1	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, a proposents two days missing, etc. 4 Also on other dates. If Received too late to be included in means and summaries. Temperature data are from observed readings of the dry bub; means are computed from observed readings. If Post-office addresses of these stations are as follows: Off daston Shoals, Blacksburg; of Windrop College, Rock Hill; of Ferguson, Entawville; of Casar's Head, Greenville; of Beaufort (near), Burton.

Threcipitation is less than 0.01 inch of rain or melted snow.

Daily Precipitation for October, 1928.

Stations.	Drainage.																																
THURSTIN.	busins.	1	2	3	4	5	6	7	8	9	10	11	12	13	3 14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.
Eastern Portion.										1					1	1	1	1	i														
Beaufort(near)	Const				T.			. 03	. 26				0:	3 T.				. 08	T.			. 60	. 25							g.		600	1.97
Charleston ***																			97.													20	0.70
Cherny di	Pre Dee							99		. 58				. T.					T.	3.5	5			O.E.								T'.	1.07
Conway III	Waccannaw		1						11						: :::				1	T.					. 51							.81	2.20
Doublington III																				1	1.80				. 13							. 18	1.72
Darlington	Pee Dee																				1												
Ferguson	Santoo							1.50											.30						.21							1.19	3.20
Florence I III	Lynches Santee Pee Dee						. 03	1 66											. 20	. 09	.36				. 09								1.24
Florence 2	do						1. 16	1.00											. 07						. 00							1.00	2.73
Garnett																							. 82							.94			2.92
Georgetown	Savannah				T.	.05		.04	T.					1:	5 . 12	5	T		T.	. 39			. 10	. 25									1.16
Kingstree #	Rhok	10					95																										
Marion	Pee Dee					Ť.		1.50									10		.70	T.	. 50				.05							. 38	2.23
Mars Bluff	do							1. 12							1		. 10		0.5	25				.14	0.0						T.	1. 45	3.41
Orangeburg	Const. Black. Pee Deedo. Edisto.							. 56											.03	00	.02		m'	400	5.0					di.		1.20	2.14
Pinopolls	Cooper					=0									5	1			. 02	. 0.				*	.04					1		.10	1.02
Rimini #J	Santon					. 10		90	.10					.0	5					. 06												. 05	0.96
	Santee Pee Dee Ashley Wateree							51											.09						. 14							1.60	1.45
Summerville #8	Ashley						.10	.04		. 23	. 08								. 09						. 41							1.02	2.06
	Wateree							. 15											. 04			. 09		40	. 04								0.62
Yennssoo      Western Portion.	Ashepoo	. 04						. 17	1.47					1					. 11	. 26	. 05		. 13	. 10	05							.08	2.38
Alkell																									.00								200
Auderson.	Edisto																	. 11						.41 .								. 53	1.41
	Broad							50								. 06	. 08	.04	. 16				. 28	. 86 .							. 11	.10	1.63
Cesar's Head Calboun Falls	Saluda					.18		. 00								50	3 70	15	95					11	. 10		• • • •	• • • •				. 38	1. 63 6. 61
Camden	Savannah																T.	.74		. 47				37	49				• • • •			. 34	2.41
	wateree							. 15												. 10		]		1	. 10							. 75	2, 10
latawba III	Catawba Saluda Broad										1											- 1	- 1										
	Saluda							01												71		••••		٠٠٠.	.80							. 33	1.13
Cherokee (near)	Broaddo							. 08			. 07						0.2	.06	. 19	. / 1				46	. 35		• • • •						2.58
	Savannah Conguree																															. 63	0.91
Columbia ***	Congue						100				!					T.	. 18	. 95	. 80					30						. 03.			2.26
							1.	. 88		• • • •				,			T		. 14				Т.	16 .							. 26	. 26,	1.70
rescent						.01		. 04		!							46		05				49	16								- 1	1.01
Que West*** Edgefield ##																T.	. 47.	. 10	. 02				T.	88				• • • • • •	Ť	Ť	20		1.21
Edgefield       fuston Shonts	Brond																			.30			.25 .									1 15	1.70
reenville ***	Saluda		gr.				000	. 05				* * * * *				·	. 30			. 15				.81	. 19						.07		1.07
freenwood ##	Savamale Broad Saluda do						. 05									Τ.	. 50	. 03	. 35	60			. 33	.50	123			'	T.  .		. 08	. 02	1.84
leath Springs	*** .																	- 03		. 60				40	. 00			• • • •				.47	2.11
logoack Mountain	Walerce							. 33 .										!	.04			.		43.						1		c=	1. 47.
cerstan w	Broad Lynches Broad	• • •   •																														.07	
andron	Broad				[			. 02; .				• • • • •													. 49 .			.				. 67	1.18
aurens	Lynches								111							T.	0.2	36	Tr.					82 .	٠. [٠								1.68
ittle Monulain				- 1					1							* .	. 00	4.	.				.001.	20					••• •		.08		1.47
ockhart	Saluda							. 25											. 02 .					50 .	] .				] .			. 61	1.38
ewberry	Saluda			.		.	j .																										
elzer III	Broad Saluda do do Broad			T.				. 40 .									0.4	30	. 50 .		.		1	92							. 08	. 39	2.29
aluda	do	'	T.					. 05									. 04	. 10	.02	. 12			T ·	88	.04		• •   • •		.02 .		T.	. 18:	2.04
antnek	Broad						2	2.00								Т.													ř.		. 10	. 60	1.55
partauburg					- 1	- 1			- 1	- 1										- 1					- 1						. 10	. 01	0.21
renton	Edisto							20								T.	m.	.24 .		. 42 .				64								. 18:	1.48
alhalla	Savannah	!			::		.02	. 22 .								12	1.	7.	50					9(1)				1	Т.		. GO .		1.72
musooro	Broad							.06								. 10.		. 10	. 56					36					• • •   • •		T.		3.85
inthrop College	Catawba			.10																										• • •			0.99
					- 1	-	- 1		1																							. 00	4. 20

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*Regular Weather hireau sultion; precipitation is for the precipitation included in the next following measurement. Isoparate dates of falls not recorded. 7. Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR OCTOBER.

							-				2011	20.							
	Ten	iperatu	ire.	Precip	itation.	Averag	ge num days.	ber of	ling lirec-		T'e	unperati	ire.	Precip	itation.	Avera	ge num days.	ber of	ing irec-
Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevaili wind din	Year.	Mean.	Highest.	Lowest.	Average.	Average lays with 0.01 inch or more.	9	Partly eloudy.	Cloudy.	Prevail wind di
887	59. 3 60. 8 63. 0 60. 2 63. 8 64. 4	91 88 88 90 92 89 90 98 95 91 96 90 91 95 92 95 92 93 94 95 95 91 95 95 91 95 95 95 91 95 95 95 95 95 95 95 95 95 95 95 95 95	30 31 27 28 28 27 25 33 34 25 28 28 35 34 33 39 20 25 26 27 26 27 28 28 28 27 27 25 25 27 27 28 28 27 27 28 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28	5. 96 4. 18 1. 65 4. 06 1. 63 0. 60 4. 92 4. 95 1. 15 1. 41 3. 23 3. 82 5. 00 5. 00 2. 63 1. 19 7. 3. 69 0. 73 4. 22	5 5 3 4 5 9 6 9 33 7 7 5 33 6 7 7 3 3 6	18 20 20 15 14 14 14 13 22 19 18 23 15 14 19	7 66 7 7 8 8 8 8 7 7 6 6 6 6 6 6 7 6	6 5 4 8 9 10 11 3 7 7 7 7 3 10 11 5 6	n. sw. n	1909. 1910. 1911. 1911. 1912. 1913. 1914. 1914. 1915. 1916. 1917. 1918. 1920. 1921. 1922. 1925. 1925. 1927. 1928. 1927.	66. 5 67. 5 65. 0 62, 5 64. 7	96 100 99 94 95 92 93 92 90 98 101 92 90 89 96 93 92	27 22 37 32 28 26 27 31 22 23 31 22 27 31 22 27 31 22 27 31 22 27 31 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	2. 43 4. 39 5. 89 2. 21 3. 56 3. 44 4. 95 2. 54 1. 50 8. 75 2. 53 0. 76 1. 79 5. 57 1. 14 1. 59 1. 44 3. 25 1. 44	568856885455244884285545	28 20 102 18 19 18 18 16 6 23 15 15 13 18 18 16 17 17 17 18	57 79 44 66 77 77 75 88 100 44 45 56 83 77 68	3 4 4 100 9 9 6 6 111 6 8 3 3 8 6 8 7 7 7 5 6 6 6 6 7 7 7 7 6 7 7 7 7 7 7 7	ne, ne, ne, ne, ne, ne, ne, ne, ne, e, e, ne, n

		_				D	aily	Te	mp	erat	ure	s fo	r C	octol	er,	19	28.									_					_
Stations.	1	2	8	4	5 6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22 2	3 2	25	2	5 27	28	29	30	31	Mes	in
Egstern Portion.	Í		Ì						1				1	1						0.0	00								c 6		78.4
Beaufort(near)   Maximum	82 59	78 58	78 61	79 65	86 69	87 65	67	81 8 67 6	52	85 64	79 8 66 6			81 8 68 6	4 80 9 6			83 65	80 55	80 65	66	75 47	72 55	70 50	71 44	78 6 49 5	9 6 0 4	6 4	6 68 15 51	6	60.4
Blackville   Maximum	59				68	67	65	64	62	63	53		52	63	9 6	6	8 71	70	55	51 75	62		49	42 69	44	41 8	1 4	6 4	19 4	1	58. 5 76. 5 64. 4 75. 1 53. 9
Charleston Maximum Minimum	78 61	56 75 60	76 67	62 79 68		82 70 86	83 71 79	80 70 78 58	70	66	79 69	79 69	81 70 83 55 87	80 71 87 56	9 8 2 7 8 8 5 6	3 8	2 88 6 78 5 88 5 68	69	55 76 62 74 52 77 55 57	62	62 78 74 78 56 79 56	69	69 56 67 49 69 56	52 68	66 53 62 35 67 41	68 7 52 8 65 7 85 8	51 4 67 6 66 5 74 5 60 4 60 6 61 6	5 5 4 8 5 11 4		6	64. 4 75. 1
Cheraws Maximum	68	72	78	78 57 88	80 70 85 60	65	64	78 58	55 57	81 60	78 54	78 52	55	56 6	5 6	S 6	5 65	69 68 68 68 68 68 68 68 68 68 68	52	62 70 45 77 56	56	69 78 58 84 56	49	52 68 38 70 41	35 67	85 71	6 6	11 4	16 4 50 5 15 3 54 5 47 4	9	53.9 78.9
Conway Maximum Minimum	68 55 75 57	48 77 55	81 59	83 59	87 62	90 63	84 66	82 63	85 62	86 62	58	83 61	63	90 8 62 6	3 8 5 6	8 8 5 6	7 86 5 63	68	57	56	56	56	56	41	41	71 88	16 4	8 5	17 4		78.9 56.8
Darlington W   Maximum   Minimum					::: :				:: ::	:: ::	:: ::	:. ::	:: ::			-	-								65	75	20 6		49 5		
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Florence 1   Maximum	79 58 71 58 78 59	78	58 81 58 85	59 82 60	65 83 62	86 67	88 65 80 67	67 83 64	86 62 86	82 65	58	80 59	64 82 62	64 87 59 87 67	80 8 88 6	7 6	5 6 7 8 7 6	6 76 8 8 73 9 86	4 76 3 56	49	53 79 56 77 64	58	67 53 70	42	40 70 41	39	48 79 44	45	47 4	2 5 1	57.2 80.2
Garnett   Maximum	78 59	78 53 81 57	85 59	84 62	87 68	88 64	88 65	86 65	86 63	90 60	84 63	82 64	85 64	67	9		. 6	9 6	0 80 7 53	81 52	64	60	49	41	41	73 38	44	47	45 4	4 1	57.8
Georgetown   Maximum					::::		• • •   •						24				35 8				79	83	69	70	66	71	75	73	57 8		78.4
Kingstree   Maximum	73 56	80 55		82 60	83 64	88 65	81 68	84 68	86 62	85 63	82 61	81 61	87 63	64		6 8	35 8 37 6		1 7 3 5		58	59	54	42	42		- 1	1		(4)	57.9
Maximun	74		1	84	88	91	83	84	89	85 64	83 5#	83 57	89 60	90 57	82 8 66 6	37 38	64 6	8 8 6 6 0 8	0 7	76 3 45	82 54 75	85 56	67 54	72 38	66 36	71 35	76 45 74	66 45	53 5 45, 4	52 11	79.1 54.8 78.7 57.5
Marion Minimum Maximum Maximum Minimum Minimum	57 75 57	78 50 79 58	56 82 5 58	57 83 60	60 89	64 89 65	65 80 66	61 83 64 83	59 85 61	85 62	82	82	84			37	89 9 66 6	0 8 8 7 5 8	0 7 7 5 2 7 1 5 5 7 5 7 5 7 5 7 8 9	7 77 3 49 5 76	61	83 60 80 56	54 70 50 67 59 71 55 74 52	38 71 42 70.	67 43	71 35 70 39 68	74 48 76	45 67 47 61	45 4 57 5 48 4 53 5	11 56 12 56	57.5
Society Hill \$6   Minimum	. 74	75	5 80 3 50	83 56 84	67 87 53 85	90 64	66 81 63	83 60	86	84	80 62	83 55	63 86 59	89 56	791 8 57 6	36	66 8	54 6	5 7	5 76 3 44 0 83	81 60	56	59	38	38 .					62	78.2 56.4 81.5
Summerville &   Minimum   Maximum   Minimum	76	75 42 80 56 76 5-	82	84	85 65	92 63	90 67 83	60 85 65 84	58 85 65 87	62 87 63	62 83 64	60 83 55 82 65 84 58 83 65	85 65 86 62 83	56 83 65 90 62 87 64	81 8 65 6 79 8 57 6 87 8 65 90	88 87 88 88 87 88 88 87 88	88 8 66 6 88 8 62 6 86 8	58 7 55 8 54 6 59 8 59 7 55 8	2 5	6 51	62	88 60	55	38 76 39 70 42	70 41 60 42 70 43	71 36 70	82 41 74 50	65 49	57 47 65 48 60 46	45 55	81. 5 58. 0 79. 6
Wedgefield   Maximum	82	71	82	85	65 89 65	88 66	83 66	84 63	6.2	85 63 88 62	84 64	84 58	62	90 62	90 64	88 65	86 8 66 6	39 7 35 8 37 6 38 8	80 7 88 5 81 7 70 5	6 51 8 77 5 46 9 80 3 50	62 78 58 77 64	60 80 62 83	52	42	42	42	50	49 70 45 67	48	42 66 45	79.6 57.6 79.8
Yemassee   Maximum   Minimum	. 58 82 63 77	8:	4 6: 2 8: 5 5:	62 84 62	84 68	89 64	66 85 65	63 85 65	86 64	88 62	84 64 82 64	83 65	83 65	64	86 70	68	66 6 85 8 66 6	58 8	70 5	3 50	64	60	70 50	69 42	43	73 38	76 50	48	46	45	58.6
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Western Portion.						1												00				770	70	60	67	69	71	60	60	57	78.4
Alken   Maximum   Minimum	85	8 6	6 8		65	85 61	88 67 81 65	81 62	83 62 85	85 62	83 63	81 59	83 62	87 64	85 69	83 69 77 67 65 60	86 69	70 1	83 68 80	9 78 59 54 7 69	74 51 76	73 62 74	72 45 69	69 43 71	67 42 67	44 67	49 75	69 45 69 42 55 38 62 42 75 40 55 34			58.0 75.5 55.1
Anderson Muximum	. 6	7 6	6 8	0 86	81	85 66	81 65	81 60	85 60	82 62	80 60	80 56	57 57	87 55 75 56 91 58	69 76 62 79 59 78	67	69 85 70 65 62 85 68 90 65	80 69 67 63 77 68 91	53	7 69 18 49 34 6	76 54	74 59 60		41	67 39 60	41	51 57	42 55	48 56 39 56 34 49 44 70 41 52	41 60 39 38 32 61 40 71 38 60	64 9
Caesar's Head Maximum	6	5 5 5 5 5 5 5 5 7 5 7 5 8 5 5	8 5 in 5	8 70	67	70 60	76 61	62 55 85	73 56	78 58	75 57 84	71 56	75 55	56	59	60	62	63	49	14 4	60 45 76	48 76	44 58 37 68 43 77	38	60 36 69	87 72	39 76	38 62	34 49	32 61	49.5 77.2 54.3 82.5
Calbonn Falls Maximum Minimum	. 7	1 7	6 5 3 7 3 5	0 6	8 8 4 62	- 66	85 66	58	88 58	59	61	83 61	56	58	61 92	78 64	68	68 91	57 89	19 49	76 50 78 49	54 80	43 77	40 71	40 70	40 72	41 80	42 75	70	40 71	54.3 82.5
Camden W Maximum . Minimum	. 8	1 7 2	8 8 6 5 8 7	4 8 4 6 5 7 7 6	6 87	89 60	90 60 83 60	88 56	60 73 56 88 58 91 59 86	62 78 58 85 59 88 54 82	61 86 53 79	50 81	62 81 57 75 55 86 56 86 53 82	88 51	60 72 61	88 61 76 >	65	66 81	82 57 89 65 76 50	14 4: 80 7: 19 4: 81 7: 50 4: 75 6: 14 4:	68 68 46	76 54 80 52 78 58	48 67 40	60 38 71 40 71 38 70 38	40 70 37 65 37	41 57 87 72 40 72 37 65 84	49 75 51 57 39 76 41 80 41 75 48	40 55	41 52	38 60	52. 2 *73. 7
Cherokec (near)   Maximum .   Minimum	6	4 6 5 5	51 8	5 7 7 6	8 81	86 60	60	56 80 50	54	58	50	49	48	87 49	61	63 .		66	50	14 4	46	58	40	38	37	34	48	34	40	36	*50.0
Chester   Maximum .				1										90	:::	77	85	84	85	80 7	78	77	72	71	72	75 40	70	58	71	67	78.4
Clemson College   Maximum .	7	6 1	0 8	3 8 59 6		87 63 87	87 65	84 58	88 56	82 59 84	81 58	50 81	84 50	49	77 56	67	68	64		80 7 46 4 76 7 55 5 74 7	4 78 5 53 3 79	77 68 74 59 75 54 73 56	44 67 50 66	71 89 70 43 70 39 68	72 36 65 43 65	40 68	70 36 74 54 73 50 72	58 36 60 47 59 43 58 48	34 53 41 49	67 38 59 42 60 40 58 39	78. 4 52. 3 76. 5 57. 9
Columbia   Maximum .	7	1 7	76	9 8	2 86	87 67	65 79 66	58 82 64	85 62	84 64 83	80 62	59	83 68	88 60	81 67 76 64	68	68	70	62	55 5 74 7	3 72 1 60 0 76	59 75	50 66	43 70	43 65	68 43 66	54 73	47 59	41	42 60	57. 9 74. 8
Due West Maximum.	6	1 7 8	71 '	9 7 8 6	9 82	65	82 63	81 59	84 58	62	78 60	81 56 81	82 58	54	64	68 75 66	68 87 68 82 70 79 69	84 70 77 67 78 64	62 79 56 78 56	48 4	8 56	54	44 68 50	39 68	42 66	64	50 72	43 58	41 49 39	40 58	74. 8 55. 2 73. 2 56. 5
(freenville   Maximum .	6	4	69 57	78 7 31 6	9 82 2 66 8 86 4 66	81	82 64	79 63	84 62	81 63	78 58	60	61	64	72 64	66	69		111					42	46	44	52				
Maximum .				7 1 8	2 85	5 85	87 66	85	85	86	87 58	84 52 80	85 54	86 55	90 59	81 66	82 69 82 67	85 69	78 59	80 7 49 4 75 6 51 4	5 7 5 9 7	57	76 44 66 46	67 43	68 40	66 38	68 89 68 40	74 40	64 42 69 42	49 40 59 39	78.0 53.5 74.8
Greenwood   Minimum   Maximum   Maximum   Minimum   Minim	: 6	55	75 53 74 49	71 8 55 5 77 8 55 5	81 82 61 64	84	80	80	58 83 60	61 82 62	58 78 56	80 58	54 86 55	55 86 56	59 75 56	66 82 64	82 67	69 79 68	78 67	75 6 51 4	9 7	67	66 46	43 65 39	40 66 38	38 67 39	40	40 60 42	42	39	53.6
Hogback Mountain, Maximum	•	1	•   :					1::::					85		78	86	88	85	84	74	4 7	7 78	69	70	65	69	76	65	51	61	77.8
Kershaw Maximum Minimum		55	77 49	81 8 56 1	84 8: 58 6:	3 66	8: 6:	83 58 87	86 58	85 62	80 55 80	81 53 82	58 83	56	78 66 83 64	66	67 79 69	85 69 82	61 79	74 7 52 7 75 6 54	4 7 5 5 6 6 8 4	7 78 2 59 5 74 6 59	46 67 49	70 39 69	65 88 65 41	37 64	76 48 65	41 58	51 41 74 40	40 60 87	54. 1 75. 4 52. 6
Landrum Maximum Minimum .		70l	68 53	79 58	58 6: 78 8: 64 6:	3 87 5 57	5		58 87 55	82 62		52	58	54		74 66		82 67	58					37	41		39	61			52.6 77.0
Laurens		71	72 53	82 62	83 8 59 6	5 6	8 6	4 83 7 55 8 82 57 4 83 4 58 9 78 7 61	89 56 86	85 61 79	81 57 78 56 82 58 80 65 76 55	82 53	84 54 89	52	78 60 81	80 67 80	84 70 89	80 68 89	82 56 85	78 49 75	73 7 48 5 74 7 16 5	5 764 62 1 78 5 49 6 6 7 6 7 6 7 6 8 7 8 7 6 6	68 45 70 45	70 38 71 40 70 38 64 44 70 70 38 38 38 38 38	68 36 68 68 69 69 68 68 68 68 68 68	68 38 70 37 69 8 69 8 62 44 70 33	49 75 49 75	41 64 40	53 42 54 42 52 41 58 54 55 42	61 40 59 84 62	54.1 77.1 52.7 77.7 54.8 73.0 58.9
Little Mountain Maximum Minimum .		71 56 75 73 56 72	75 51	82 79 57 82 59 77 64	59 6 83 8 59 5 83 8 59 6 77 8 62 6 85 8	6 85 7 5 6 81	7 6	82 57	58	79 59	56	53 79 50 82 54 77 56	59 59 86	5 57 6 89	62	67 80 65 83 66	70 89 66 88 69 83 71 85 67	68 89 68 84	85 60 81	75 49 78	16 5	1 76 5 49 4 76 5 6 7 7 7 6 8 7	45	40 70	69	37 69	49 75	62	42 52	84 62	52.7 77.7
Newberry Maximum Minimum		73 56	74 53 69	82 59	83 8 59 6	6 8	8 6	4 58	58 88 58	59 86 60	58	54	57	54 7 74 8 60	62 80 61 76 60	66	69	67	81 60 76	78 53 76 53 76 53	75 7 46 5 68 7 58 5 73 6 46 4	5 6	6 69 4 44 2 72 6 52 8 70 1 48	38	3 37 5 6	38 62	51 61	42 61	41 58	40 56 48 60 40	73.0
Saluda Maximum Minimum,		72 61	69 56	77 64	77 8 62 6	0 8	6	9 78 7 61 2 80	60	11 62	65	56 56 58	57 77 58 8	8 60 1 86	60	78 69 83 68	71 85	83 73 83	76 68 80	53	58 F	7 6	6 52 8 70	70	5 45 5 65 5 31	44 70	61 52 75 47	61 47 65 35	55 55	60	58,9 76, 5 52, 6
Santnek   Maximum   Minimum		68 56	75 58	79 59	85 8 56 6	4 8	7 8 7 6	8 59	6:	62 4 79 8 50	53	88	50	0 50	80 60			69	60	- 1	46 4			1					1 I		
Maximum		- 1	68		78 8 60 6	80 8	5 8	3 80	8	5 81	74 9 5: 5, 8:	4 81 4 50	5 8 8 8 8	6 87 1 50	76 58	76 65	81 66 86	79 67 85	78 50 ×0 64	76 44 78 57 76 44 76 52 75	68 6 43 6	9 6 5 5	6 60	7 4 7 7 8 8 6 8 8 6	0 6 4 4	6 66 4 34 9 71 6 42	76 38 78 53 74 44 75	62 35	48 42 57	61 37 57 40 62 34 61 40	73. 6 50. 8 78. 8 57. 5 76. 1 50. 0
Spartanburg Minimum.  Maximum  Trauton Minimum	:::	68 65 73 57 85	50 78 54	84	84 8	80 8 87 6 85 8	6 8	6 50 9 8 5 65 5 8	5 8 2 6	4 66	8:	2 82	8 5	4 89 9 61	76 58 89 64 74 50	84	86	70	80 64	78 57	48 76 57 69	15 5 15 7 15 7 15 7 15 7 15 7 15 7 15 7	0 40 3 70 0 48 6 76 8 38	5 4	4 4	6 42	53	67 45 62 34 60	46 51	40	57.5
( Maximum	:::	85	65	80	80 8	≀∩ 8	6 8	5 8	8 5	7 8-	1 8:	2 85	3 4	9 50	74 50	68 73 63 83 65 82	81 65 87 69	81 60	81 46 83	76	44	52 5	6 76 8 3	8 3	2 6 5 8 9 6	6 67 4 86	44	34	40 50	34	50,0
Walhalla		55 69	55 74 52 73 50	59 78 55 77 57	58 6 82 8	34 5 35 8 35 6	8 8	n 87	8 5	9 6	2		. 8	4 89	78	83 65	87 €9	83 70 84	65	52	44 78 47 72 45	50 5	8		. 4	1 40	h	1 49	44 54 38	40 60	*76.2 *56.0 77.2
) Maximum		69 56 73 55	73	77	83 8	34 8 64 6	9 8	5 6 8 8 4 5	3 8	5 8	8	1 8 4 5	5 8 4 5	55 55 55 56	89 57	82 63	85 68	84 57	82 58	52	45	52 6	0 4	0 4	1 3	6 35	76	38	38	38	77. 2 52. 5
Winthrop College \ Minimum.		99	50	01	00	,	1						1								-			1			1				

Reference letters (\*, b, c), appearing in the table indicate number of days missing; for example, \* represents two days missing, etc.

Maintruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 11-22-28-900

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

Vol. XXXI. COLUMBIA, S. C., NOVEMBER, 1928.

#### GENERAL SUMMARY.

The month was remarkably dry, as a whole, but two previous Novembers having had a lower average rainfall. The temperature averaged somewhat below normal.

Winter cereal plowing, planting, and germination were retarded by insufficient rainfall and hard, dry soil; however, generally good stands were developed, incident to some rain, from the west at Savannah. Ga,, on the 22d. and the month closed with these crops growing fairly well. Cotton picking and the corn and sweet potato harvests were practically completed by the last week. All staple crops were the latter part of the month. The woods were generally bare by the 24th.

#### PRESSURE.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was 30.47 inches. The highest pressure was 30.61 inches at Due West on the 14th; the lowest pressure was 29.71 inches at Asheville, N. C., on the 19th, and in the Section proper, 29.74 inches at Columbia on the same date.

# TEMPERATURE.

The monthly mean for the Section, determined from reports of 37 stations, was 52.8°, or 0.8° below the normal. The highest temperature was 85° at Orangeburg and Camden on the 18th and at Ferguson and Summerville on the 19th. warm periods were generally from the 2d to 8th, from the 15th to 19th, and on the 29th and 30th, when the daily mean temperatures ranged from near normal to 22° above. The lowest temperature was 11° at Caesar's Head on the 26th. The cold periods were from the 9th to the 13th and from the 20th to the 27th, with daily mean temperatures ranging from 5° to 19° below normal. Killing frosts were fairly general in the northern counties during the first week, and the line of freezing temperatures advanced over the central counties by the 14th, reaching the coastal region by about the 26th.

#### HUMIDITY.

The mean relative humidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was as follows: 8 a.m., 79%; noon, 54%; 8 p. m., 64%. The highest percentages occurred along the lower coast, and the lowest, in the interior.

# PRECIPITATION.

The average for the Section, 49 stations reporting, was 0.72 inch, or 1.53 inches below the normal. Precipitation occurred in three fairly well defined periods, but the total amounts were much below normal generally. Excepting along the northern coast and in the higher elevations of the north-

western counties, the monthly measurements were less than one inch, tapering off to less than one-half inch in a large section of the interior. The greatest local monthly amount was 3.11 inches at Caesar's Head; least local monthly amount, 0.09 at Blackville. The greatest amount during any 24 hours was 1.15 inches at Caesar's Head on the 17-18th. The average number of rainy days was 40% below normal. There was no snowfall or sleet.

#### WIND.

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was 7.1 miles. The highest velocity for any 5-minute period was 30 miles per hour from the south at Greenville on the 19th and

#### SUNSHINE AND CLOUDINESS.

The average monthly synshine, determined from 9 autosafe from frost. Considerable hog butchering was done during matic records, was 200.8 hours, or 64% of the possible amount. The average number of clear days was 19; partly eloudy, 5, and cloudy, 6; as against normals of 17, 6, and 7 days, respectively

# RIVER CONDITIONS.

Incident to generally light rainfall, the rivers of the Section continued low throughout the month.

# MISCELLANEOUS PHENOMENA (dates).

Frost, Killing or Freezing Temperature. -5th, 2 stations; 8th, 1; 9th, 1; 11th, 4; 12th, 3; 13th, 3; 14th, 3; 21st, 13; 24th, 2; 26th, 1.

Halos-Lunar: Charleston, 16, 27, 29; Columbia, 19, 29; Dne West, 19, 27; Greenville, 19; Newberry, 19; Santuck, 1; Walhalla, 19. Solar: Columbia, 1, 16, 18, 24, 27; Greenville, 19; Santuck, 24.

# OBITUARY.

Mr. Allen P. Hazard, Cooperative Observer at Georgetown, died November 3, 1928. His service began in July, 1910, and a practically unbroken record was rendered from that time until illness forced him to relinquish the work. The climatological service of South Carolina and the public at large owe a debt of gratitude to such old cooperative observers, and the Weather Bureau has witnessed the passing of Mr. Hazard with more than ordinary regret.

#### MISCELLANEOUS DATA FOR NOVEMBER, 1928.

	sea.	Tem	perali ces F	are,	tio	ipita- 11, lies.	Win		re	Mear dati midi	re	age of pos-
Stations.	Barometer,	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns
Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex-} tremes.	30, 17 30, 18 30, 17 30, 16 30, 18 30, 20 30, 16 30, 18 30, 16 30, 17	46.8 55.0 57.6 51.4 54.0 51.4 52.2 58.2 55.4	71 82 80 76 80 77 74 80 80	18 28 32 22 24 18 22 31 27	0.89 0.30 1.03 0.52 0.21 0.76 0.88 0.90 2.74	0. 32 0. 20 0. 66 0. 19 0. 17 0. 32 0. 62 0. 81 1. 09	9 2 4.5 8.9 4.7 5.9 7.7 7.3 9.9 5.7	nw. nw. sw. sw. sw. sw. sw. w.	79 82 75 80 82 83 71 78 82 79	58 47 59 59 47 48 52 56 63	64 60 69 65 57 58 65 77 64	54 69 75 58 65 63 61 67 67

\* 3-cup anemometers used since January 1, 1928.

#### Climatological Data for November, 1928.

					Climat	ologic	al D	ata 1	for 1	Tove	mber,	1928.								
* 15	(		record.	т	emperat	ure, in	degre	es Fal	hr.		Precipi	tation,	n inch	es.	Num	ber of	day	s.	etion	7
Stations.	Counties.	on, feet	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.		Greatest daily range.	Total.	Departure from the normal.	Greatest in 21 hours.	melted	With precipit on (0.01 in. or more)		Partiy ciolids.	Cloudy.	Prevailing direction or whid.	Observers.
Eastern Portion.						1			- 4	1	1		1							
Beaufort (near)‡‡ Black ville Charlesson Chèraw	Beaufort Barnwell Charleston Chesterfield	21 296 48 144	47 44 57 46	56. 9 57. 6 51. 8	-1.8 -0.5 -0.6	78 80 79	† 6 18 †18	29 23 32 19	27 26 26 26	36  27 46	0.09	-1.99 -1.96 -1.11 -2.00	0. 15 0. 09 0. 66 0. 18	0 0 0 0	1 4 1	16	5	9	s. 11.	Mrs. R. L. Fripp. Mrs. Margaret T. Sanders. I', S. Weather Bureau. Roland D. Powe.
Conway Darlington Effingham Ferguson‡‡	Horry Darlington Florence Orangeburg	25 175 106 63	38 33 37 42	55. 4 152. 0	+1.0	81 	18	24	27  27	43 	1.41 0.88 1.12	-0.82 -2.17 -1.01	0.80 0.41 0.40	0 0	5  4 5				nw.	Paul Quuttlebuum. D. C. McCall. Wm. B. Gillespie. Henry C. Savage.
Florence 1	Florencedo	136 136 82 18 54	46 13 10 35 46	53.8 655.1 54.8	-0.3 -2.6 	80 584 83	17 17 18	28 5-22 24	26 27 27	39 	0.74 0.76 0.29	-1.81 -1.29 -2.20	0. 39 0. 42 0. 25 0. 32	0 0	4 3 3 4	21 21 22 	5 5 5	3 3 5	sw. n 	11. K. Gilbert. Pee Dee Expuriment Sta. Maner B. Robert. Vacant. Mrs. Elien Scott.
Mariou	Marion Florence Orangeburg	68 92 264 54	3 5 12 81	°55.6 54.8 52.8	+0.4 -1.5	°84 85 78	18 18 †18	°24 23 28	25 26 †26	°30 	1. 13 1. 07 0. 10 1.53	-1.40 -0.86	0.55 0.60 0.10 0.65	0 0 0	4	16 16 20	5 5 5	9 5	sw. nw.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel.
Rimini Society Hill Summerville Wedgefield Vemassee	Sumter	97 192 75 249 24	14 37 30 38 38 39	54.4	-1. 4 -0. 4	*80 85	19 19 †18	22	26 26	42	0. 37 0. 63 1. 11 0. 45	-1.84 -1.55 -1.21 -1.62 -1.89	0.20 0.25 0.45 0.42	0 0	5 7	23 18 16	2 0	5 12 12	w. n. nw.	Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta. W Hampton Ramsey W. C. Hulson.
Division means and	extremes			54.6	-0.1	85	†18	19	26	46	0.74	-1.59	0.80		ľ	15	i			
Western Portion.											- 00	-2.25	0.17		3	20	3	7	uw.	Frank B. McCoy.
Aiken Anderson Bhirs Casars Head ‡‡ Calhonn Falls Canden	. Greenville	527 764 293 3118 508 222	35 23 4 29	55. 0 52. 6 45. 5 49. 8 52. 4	+0.7 -0.2 	82 78 65 79 85	18 17 † 2 18 18	24 18 11 20 18	26 26 26 26 26	37 39 36 40 43	0.29 0.88 0.42 3.11 1.07 0.24	-1.76 -1.82 -1.25 -2.09	0.53 0.30 1.15 0.86		5 2 5	22 11 13	2  6 	6 12 11		H. H. Russell. Esther B. Owens. Casar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba Chappells Cherokee (near) Chester Cleusou College	. York	562 402 758 487 850 851	23  6 36	48.8 49.8 54.0	-1. 1 0. 0	75 79 80	18 12 18	14 20 24	26 24 26	45	0.40 0.58 1.05 0.98 0.21	-1.96 -1.60 -1.81 -2.02	0. 46 0. 72 0. 50			23	3 5 6	4	1.6.	James C. Furis. George V Chump. Spartanburg Water Works, J. C. Cornwell. Prof. F. H. H. Calhonn. B. S. Wenther Bureau.
Columbia  Crescent  Due West Edgefield† Gaston Shouls 11 Greenville	Spartanburg Abbeville Edge:field Cherokee	711 680 1039	2 1 14 14 25 9 44	51. 4	-1.6 +2.6	77  74 79	17 17 17 18	18  22 22	26  26 26		0.28 0.76 0.49 0.24 0.88 0.56	-1.26 -1.18 -0.49 -2.29 -2.10	0.49 0.15 0.62		0 4	15	4 7	10	Sw.	Broad River Power Co. U. S. W. B. Aerological Sta. Agent C. and W. C. Ry. S. C. Lt., Power & Ry. Co. U. S. Weather Bureau. M. M. Callioun.
Heath Springs Hogback Mountain . Kershaw Landrum	Lancaster	500	3 26 5 12 6 12 8 18	51. 6 52. 6 51. 4	-0.4 0.0 +0.2	77 77 81 74 79	18 18 6 †12	20 18 26 20	26 26 24 26	36 41 42	0.50 0.33 1.46	-1.66 -1.56 -1.86 -1.9	0. 20 0. 18 0. 62		0	3 16 3 18	1 7 8	15	e. w.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Hamel. R. Hartwell Wilds, D.D.S. L. G. Roff.
Laurens Little Monutain Newberry Pelzer Saluda Snutuck	Newberry Newberry Anderson	71 505 850 530	1 35 2 24 0 24 6 26	52.5 52.8	-1.0 +0.4 +2.3	81 81 *74 77	18 17 †17 †17	19 18 *32 15	26 26 26	45	0. 44	-1.8 -1.6 -2.8 -1.9 -2.3	8 0.89 2 0.16 6 0.25		0	3 20 4 20 8 6 15 5 18	7 4 11 7			
Spartanburg Treuton	Spartauburg Edgefield Oconee Fairfield	87 62 106 54	5 5 0 3 1 28 5 3	54.3 49.4 51.1	$ \begin{array}{c c}     -0.6 \\     -1.0 \\     -0.8 \end{array} $	78 80 77 79 77	17 18 6 †17 †17	16 23 16 20 18	26	37 3 46 3 86	0.57 1.26 0.67	-1.7 -1.7 -1.5 -1.9	8 0.47 4 0.68 0 0.38 4 0.18		0 0	3 2 17 5 17 3 18 2 15	1		sw. 7 nw ne. 5 n.	. M. H. Daniel. Mrs. S. E. Long. 11. W. Braudt. Rev. Oliver Johnson W. T. Clawson.
Divistan means an	d extremes			51.	1	85 85	18 †18	11		A						4 18		1	7 sw. 6 sw	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate immer of days missing; for example, b represents two days missing, etc., this on other dues. If Received too late to be included in means and summaries. Temperature that are from observed readings of the dry othic means are considered in the considered readings of the dry othic server is the considered readings of the dry othic server is the considered readings of the dry othic server is the considered readings of the dry othic server is the considered readings of the dry othic server is the considered readings of the dry othic server is the considered readings of the dry othic server is the considered reading of the dry othic server is the considered reading of the dry othic server is the considered reading of the dry othic server is the considered reading of the dry othic server is the considered reading of the dry othic server is the considered reading of the dry othic server is the considered reading of the dry othic server is the considered reading of the dry othic server is the considered reading of the dry othic server is the considered reading of the dry othic server is the considered reading of the dry othic server is the determining of the dry o

# ERRATA.

October, 1938.—Due West, page 40, maximum temperature, 2d, should be 72, and mean maximum should be 74.9.

# Daily Precipitation for November, 1928.

Stations.	Dralmago-															Day (	of m	onth															
etadons.	basins.	1	2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Tota.
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Except as otherwise indicated, observations are generally made late in the afternoon, near smost, and precipitation recorded is for the 24 hours ending at the three observation. Ill Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Illurean station: precipitation is for the 24 hour period, midnight to midnight. \* Precipitation included in the next following measurement. Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

# COMPARATIVE DATA FOR NOVEMBER.

						- 00	DEL EL		DAI	ON AUG A	VENIB.	ER.							
	Те	mperatr	ire.	Precip	itation.		dnys.	ber of	Hing direc- n.		Te	mperati	ire.	Precip	itution.	Averas	ge mum days.	ber of	ing irec-
Vear.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind c	Year.	Mean.	Highest.	Lowest.	Average.	Average iaxs with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di
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Charleston Minimum Cheraws Maximum Minimum	66 50 65 40 66	59 63 50	64 55	68	64 38	72 40	68	72	61	4	8 5	4 2	8 6	9	48 5 65 7 28 4	2 7 6 5 7 6 5 7 6 6 7 6 7 6 7 6 7 6 7 6 7	3 7	5 7	9 79 0 68	6: 4: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5:	53 37 52 52 27 1 55 32	60 36	50 32 58 36	63 23	53 36 58 42	45 19	58 20	66 29	74 43	59 40 74		39.7 67.6
Conway   Maximum	66 46	64 57	69 59	78 57 68 58 75 60	71	75 52	58 68 47 75 47	75 55	61 38 68 38	5 4	4 5	7 8	39 6 33 3	19 13 18	28 4 69 7 35 4	7 7	5 5	9 8	1 80	5 5	55	62 38	58 36	28	42	25	24	30	37	42		43. 2
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Kershaw (Minimum		41 62	53 68	52 71 56	51 61	40 66	74 44 74	61	68 47	41 61 36	49 40 53 38	57 35 61 36	65	64	63	74 45 71 44	47 69 45	53 73 57	62 68 55	75 57 67 58	38 58 40	51 32	54 30	51 30 49 35	29 64 26	29 57 36	18 46 24	25 55 32	65 34	44 68 38	62 49 .	62.
Landrum Minimum					67	68	37 75	60		61		_				Į.				70	70	58	59	52	63	52	46	58	63	73 48	67 50	6 <sup>e</sup> .
Laurens Minimum Maximum		40 62	50 60 50	56 68	45 68	38 70	38	52 66 51 65	47 72	41 65	56 89 53	34 59	84 69	67 36 68 35 64 34 66	32 3 70 5 33	48 77	74 54 78 52	79 56 80	76 61 81 55 80 60	70 55	59 36	58 25 53 27 53 26	62 37 59	61	60 31	52 32 56 37 54	20 46 19	56 25	29 62 34 62 31 56	72 44	74	65.
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Saluda ) Minhmin	::	39 62 45 61 41	65	62 67 57	54 64 57	45 68 34	70 35	65 48	74 47 72 44 72 47 67 59 70 46	41 65 86 63 38 67 45 68 32	41 55 46 53 46	55 29	65 28	40 63 28	3 65 8 26	75 41	75 41	77 50	74 67 77 61	71 60	61 35	55 25	58 31	28	23	25	15	20		39	43 -	
Santack Minimum		69	85 68			66	72 35	60			54	61		i	9 64	72		78	- 4	70	50	52	58	51 30	68	47	47	55 22	61	70 36	65 45 .	62. 36.
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Trenton i Minhmm   Maximum .		88 64 43 65	71	56 63 50	56	42	42 77 35	53 67	72	62 99	53	36 62 28 57	74	6	5 70	72	71	75 54	67 51	66 46	50 30	54 21	57 31	58 29 52 26 50 80	65	52 32	16	55	65 27	70 35	441.	85.
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Whithrop Callege i Minimum		90)	9(1)	Un	04		0																1	}				1		1		

Reference letters (\*, b, \*), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

Morroweuts are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 12-20-28-900

# CLIMATOLOGICAL

## SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist

Vol. XXXI. COLUMBIA, S. C., DECEMBER, 1928. No 19

#### GENERAL SUMMARY.

December was a mild winter month, with no marked extremes, but precipitation was decidedly deficient.

Development of winter grain crops was hampered by insufficient rainfall generally, but toward the close of the month, during the month.

#### PRESSURE.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was 30.17 inches. The highest pressure was 30.55 inches at amount. The average number of clear days was 15; partly Due West on the 24th; the lowest pressure was 29.59 inches at eloudy, 6, and cloudy, 10, as against normals of 14, 6, and 11 Charlotte, N. C., on the 17th, and in the Section proper, 29.66 days, respectively. inches at Greenville on the same date.

# TEMPERATURE.

The monthly mean for the Section, determined from reports of 41 stations, was 46.1°, or 0.5° below the normal. The highest temperature was 78° at Ferguson on the 4th and 28th and at Kingstree on the 18th. The warm periods were generally from the 1st to 5th, 11th to 18th, and 26th to 29th, inally from the 1st to 5th, 11th to 18th, and 26th to 29th, inclusive, when the daily mean temperatures ranged from 5° to West, 21, 22; Greenville, 21, 24; Walhalla, 20. Solar: Char-(near) on the 10th, at Clemson College on the 9th and 10th, ville, 6. and at Walhalla on the 23d. The cold periods were from the 6th to the 10th and from the 20th to 24th, inclusive, when the daily mean temperatures ranged from 5° to 14° below normal.

#### HUMIDITY.

The mean relative humidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was as follows: 8 a.m., 80%: noon, 59%: 8 p. m., 66% The highest percentages occurred along the lower coast, and the lowest, in the interior.

# PRECIPITATION.

The average for the Section, 52 stations reporting, was 1 87 inches, or 1.65 inches below the normal. Precipitation was quite general in four fairly well defined periods, but the amounts were generally light, ranging from a little over 5 inches along the northwestern edge of the State to less than one inch in considerable areas of the northwestern counties. The greatest local monthly amount was 5.14 inches at Caesar's Head; least local monthly amount, 0.61 inch at Laurens. The greatest amount during any 24 hours was 2.00 inches at Caesar's Head on the 20th and 27th. The average him ber of rainy days was 25% below normal NUERSIN Snow flurries occurred at a number of northern stations on

the 7th, 8th, 20th, 23d, and 27th, and sleet was reported at few upper stations on the 7th and 27th. Measurable spowfall occurred at Hogback Mountain on the 20th and 27th.

The prevailing wind was from the northeast. The average hourly velocity, determined from 9 anemometer records, was 6.7 miles. The highest average velocity was 9.4 miles per hour at Savannah, Ga., and in the Section proper, 9.2 miles per hour at Charleston; the lowest average velocity was 3.9 miles per the stands of wheat, oats, and rye were generally good. Winter hour at Augusta, Ga., and in the Section proper. 5.4 miles per truck on the coast made satisfactory advance, with no serious hour at Columbia. The highest velocity for any 5-minute period frost danuage. Considerable hog killing was done at intervals was 31 miles per hour from the northwest at Savannah, Ga., on the 29th, and in the Section proper, 30 miles per hour from the southwest at Greenville on the 17th.

# SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 172.5 hours, or 56% of the possible

#### RIVER CONDITIONS.

Incident to generally light rainfall, the rivers of the Section were relatively low throughout the month.

# MISCELLANEOUS PHENOMENA (dates).

Earthquakes.—November 2, tremor, throughout central and northwestern counties; December 19, tremor, at Summer-

14° above normal. The lowest temperature was 15° at Cherokec leston, 26; Columbia, 6, 21, 26, 31; Due West, 6, 15; Green-

Fog. dense.—Blairs, 4: Calhoun Falls, 3, 14; Columbia, 2, 3, 4; Duc West, 4, 14: Greenville, 1, 3, 17; Pelzer, 17; Santuck, 4; Walhalla, 3; Winnsboro, 4.

# ERRATA.

November, 1928.—Anderson, total precipitation, pages 42 and 43, should be 0.85; Clemson College, total precipitation, pages 32 and 43, should be 0.95; Georgetown, omit total precipitation, page 43; Summerville, highest temperature date, page 42, should be 18.

#### MISCELLANEOUS DATA FOR DECEMBER, 1928.

m. e	r, sea		perati ces F		tio	ipita- n, hes.	Wit		re	Mean Inti- midi	re	e of pos-
Stations.	Barometer,	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns.
Asheville, N. C Augusta, Ga Charleston, S. C. Charlotte, N. C. Columbia, S. C. Due West, S. C Greenville, S. C. Savaonah, Ga. Wilmington, N. C. Means and ex-}	30, 18 30, 18 30, 15 30, 17 30, 18 30, 20 30, 16 30, 16	39 0 48.8 52.3 44.3 47.8 44.4 44.8 53.4 48.8	6) 72 73 67 70 68 66 76 71	19 26 34 26 27 22 25 32 30	0.55 2.84 1.09 0.88 1.82 1.20 1.51 1.08 3.58	0. 25 1.31 0. 49 0. 45 0. 90 0. 42 0. 75 0 86 0. 81	* 7 2 3, 9 9, 2 4, 4 5, 4 7, 3 6, 9 9, 4 6, 2	nw. nw. ne. ne. ne. ne. ne.	88 84 76 78 80 83 70 79 86	57 54 60 65 55 57 56 62 69	64 64 68 67 60 £3 £6 78	56 69 64 55 56 52 53 58
tremes	80 17	47 0	76	19	1 56	1.31	67	ne.	80	59	66	56

\* 3-cup anemometers used since January 1, 1928.

46		CLI	M	TOL	OGIC.	AL I	TAC	A: S	SOU'	ГН	CAR	OLIN	A SI	ECT.	ION					DECEMBER, 1928
					Clima	tologi	cal I	Data	for I	Decen	ber,	1928.						- i	et	
			record,		Tempera	ature, i	n degr	ees Fa		-	Precip	itation,			Num	ber	of da	ys.	g direction wurd.	
Stations.	Counties.	Elevation, feet.	Length of re	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.01 in, or more)	Clear.	Partly clouds.	Cloudy.	Prevailing dir	Observers.
Eastern Portion.																				
Beaufort (near)‡‡ Blackville Charleston Cheraw	Beaufort Barnwell Charleston Chesterfield	21 296 48 144	47 44 57 46	52.8 45.6	+0.6 +0.6 +1.2	<sup>5</sup> 75 73 69	† 5 14 † 4	<sup>b</sup> 30 27 34 19	10 10 10 10	<sup>b</sup> 33 23 42	1. 65 2. 43 1. 09 2. 73	-1.24 -0.84 -1.63 -0.45	0.77 1.05 0.49 1.03	0 0 0 T.	3 5 6	6		11	ne.	Mrs. R. L. Fripp. Mrs. Margaret T. Sanders. U. S. Weather Bureau. Roland D. Powe.
Conway Darlington Edingham Ferguson <sup>‡‡</sup>	Darlington	25 175 106 68	38 33 37 42	49. 3 445. 8	+1.0 0.0 +1.3	78 d74	13 4 † 4	22 d <sub>20</sub>	10 †10	43 444 48	2.37 2.00 2.88 2.42	-0.87 -0.81 -0.29 -0.64	0.75 0.68 0.92 0.85	0 0 0	10 9 7 9	16 16			ne.	Paul Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Florencedo	136 136 82 18 54	13 10 35	46. 8 50. 0	+1.2 -2.6 +1.9	71 75 78	1 5 18	23	10 10 9	46	3.35 3.60 1.27 2.75	$^{+0.43}_{+0.68}$ $^{-2.70}_{-0.29}$	1.85 1.88 0.62	0 0	8 6 6	14 18 15 15	10 6 11	7 7 5 	11W. S. 	Pee Dee Experiment Sta. Maner B. Robert. Vacant. Mrs. Ellen Scott.
Marion Mars Bluff Orangeburg Pinopolis	Marion	68 92 269 5-	8 8 8 12	48. 4	+0.2	75 76 70	16 5 †13	21 22 22	9 10 9	39	2.17 3.16 2.38 1.76	-0.56 -1.23	1.00 1.08 0.89 0.50	T. 0 0	6 8 7 6	15 5 12	11 14	12 15 5	ne n. nw.	Alden F. Schell. Rosa R. Davis. U.S. Fisherics Station. Miss E. P. Ravenel.
Rimini	Sumter	249	2 37 5 36 9 38	49. 5	-0.1 -1.0	71 76 68 76	+ 5 1 5	21 25 21	19 10 10 10	1082 46 36 47	2.86 2.12 1.64 2.70 1.16	-0.42 -1.12 -1.92 -0.56 -2.29	1. 40	0 0 0 0	6 7 5 3 5	16 14 17 17	3 3 6 2	12 14 8 12	w. n. w. ne.	Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta. W. Hampton Ramsey W. C. Hutson.
	extremes			. 48.8	-0.4	78	† 4	19	10	48	2.31	-0.77	1.40	T.	6	14	7	10	ne.	
Western Partion.											2, 54	-1 10	1.35	0	4	21	0	10	ne.	Frank B. McCoy.
Aiken Anderson Blairs Casars Head‡‡ Calhont Falls Camden	Fairfield. Greenville	29 311 50	4 3 3 2 8 8	3 3 4 9 .42.	8 +0.4	69 60 67	28 5 4	24 22 21 21 18	†10 †10 †21 †10 11	36 41 35 40 38	2. 54 0. 86 1 49 5. 14 0. 89 2. 74	-3.92 -2.17	0.26 0.51 2.00 0.37	T.	5 4 5	2:2	6 5	8	w.	H. H. Russell. Esther B. Owens. Crear's Head-P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba Chappells Cherokee (near) Chesterff Clenson College Columbia	York Newberry Spartanburg Chester Oconee	. 56 46 78 48	12   2 58   57   50   5	8 6 *40. 6 43.	6 +0.1	65	4 5	*15 15 27	10 † 9 10	*40 45 30	1.32 1.68 0.81 2.74 1.25 1.82	-2.64	1 0.48 0.58 1.10 1 0.70	T.	7 4 6 5	20	2	9	re.	James C. Faris. George V Clamp. Spartanburg Water Works J. C. Cornwell. Prof. F. H. H. Calhonn. U S. Weather Burean.
Crescent Due West Edgefield †† Gaston Shoals 11 Greenwood	Spartanburg Abbeville Edgefield	. 61 . 61 . 100	30 11 80 39	2 4 4 4 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	s +2.6	66	5	22 25 22	:9	32	1. 03 1. 20 1. 92 1. 09 1. 51 1. 30	-3.48 -1.08 -2.13 -3.2	8 0.58 3 0.36 7 0.76		0 6 0 6 0 8 0 8	1:	4 6	11	ne.	Broad River Power Co. U. S. W. B. Aerological Sts. Agent C. and W. C. Ry. S. C. Lt., Power & Ry. Co. U. S. Weather Bureau. M. M. Calhonn.
Heath Springs Hogback Mountain Kershaw Landrun	Lancaster	5 30 5 10	68 25 00 63	6 44. 2 *42. 2 46. 3 43. 0 45.	6 +1. 2 +0. 6 0.	1 66 -68 1 70 0 65	4 3 4	25 *19 28 21	9 9 10 †22	36 *35 40 37	1. 66 1. 83 2. 26 1. 36 0. 6	-1.9 -0.8 -3.5	4 0. 6: 1. 1: 2 0. 8: 7 0. 9:	2 6 2 6	0 5 5 6 0 7 0 5	1 1	9 0	12	e.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Bamel. R. Hartwell Wilds, D.D.S. L. G. Roff.
Laurens Little Mountain Newberry Pelzer Saluda Santuck	Newberry Newberry Anderson Saluda	. 7	11 02 50 36	15 45. 24 26 644 35 42	1 -1.	0 70 8 566	4	21	10	b43	1.79 1.6 1.8 1.3		4 0.5	0 5 T	0	1		1		E. W. Jeter.
Spiritanburg	Spartauburg Edgefield Ocouce	8 6	75 20 61 45	51 42 35 47 28 41	3 -0. 8 -2. 5 -0.	1 71 1 67 6 69	7	1 2	5 2	3 36 3 42 9 37	2.1 1.1 1.8 0.9	1 -1.6 -4.2 5 -1.6 1 -3.3	58 1.1 21 0.4 55 0.8 31 0.4	2 11 166 12	0 0	7 1 1 8 1 3 1	1 1	4 9	9 sw. 9 ne. 9 n	11. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
				4.5	1 -0	1 74	4	4 1	5 †	9 48	1.4	8 -2.1	80 2.6	0 0	.1	6 1	15	6 1	0 ne.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, e), appearing in the table indicate number of days missing; for example, a presents two days missing, etc. If also not not relates the relative process of the relative process of the relative part of the relative pa

74 4

78 † 4

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Dally Precipitation for December, 1928.

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Eastern Portion.							1																										
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hester lemson College	do	. 60												.10	. 29						. 45			.30					1.10				2.74
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	do	.08	. 37																. 13		.17	. 35						. 20					1.30
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	Broad		. 10												1. 16			. 10	. 26		10							15					1. 87
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imishoro	Broad	. 08							. 03						.21				07		. 15	.34											1.85
inthrop College	Catawba	. 25																			. 42												0.91
						- 3	- 1	)									- 1				- 1									- 1	- 1		

Except as otherwise indicated, observations are generally made late in the afternoon, near smeet, and precipitation recorded is for the 24 hours ending at the time of observation. |||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight. \* Precipitation included in the next following measurement. Separate dates of falls not recorded. T. Trace, or less than 0.01 incl.

COMPARTIVE DATA FOR DECEMBER

						- 00	MPAR	ATIVI	SDAT	A FOR DEC	CEMB	ER.							
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Vear.	Mean.	Highest.	Lowest.	Атегаде.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind	Year.	Mean.	Highest.	Lowest.	Атегаде.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di
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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

M Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 1-22 29 - 900

# U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# LOGICAL DATA.

SOUTH CAROLINA SECTION THI

RICHARD H. SULLIVAN, Meteorologist.

VOL. XXXI. COLUMBIA, S. C., YEAR, 1928. No. 13.

#### GENERAL SUMMARY.

The year 1928 was marked by the stormiest weather in August and September since 1916, and the average annual precipitation exceeded all previous annual records, notwithstanding deficient rainfall during the last three months, and two previous highest flood crests were overtopped during those months. The mouthly mean temperature ranged below normal, except in August and October, and precipitation showed subnormal averages in January, March, October, November, and December. One tornado was recorded in June, and six in August; two persons were killed, and 13 were injured. One person was drowned below Columbia during the August floods; five persons were killed and 11 injured in September incident to railroad bridge washouts. Lightning caused the death of 12 persons in April, May, June, July and September; 10 were injured in March, April and July. The initial general damage to crops and other property from tornadoes, wind squalls, hail, lightning, and floods was close to \$7,000,000, of which about \$4,500,000 was in the lowland districts, and the value of movable property saved by warnings approximated about \$800,000.

Although the weather was unfavorable for winter crops at intervals during January, the growing season opened about April 1 with winter wheat, oats, rye, and truck in fairly seasonable stages of growth. Cotton, corn, tobacco, sweet potatoes, and lesser crops were planted around normal dates, and tree fruits came into bloom during the latter part of March, with woods generally green about April 8. In May, however, much replanting of eotton and eorn was necessary, incident to cold nights, and stands naturally became very irregular. The winter cereal harvests were completed toward the end of June. The first cotton bloom was noted at Ellington on June 14, the first open boll was pieked at Olar on July 28, and the first bale was ginned at Allendale on August 13. The disastrously stormy weather of August and September was reflected in the extremely unsatisfactory development of staple crops during the critical period of fruition, and, though estimates of losses are given, the actual and ultimate damage can never be known. The stormy period was followed by generally mild weather during the remaining three months, and outdoor work was confined principally to housing crops and preparing the winter's supply of meat

The last general spring killing frosts occurred about March 22 in the eastern and about April 1 in the western portion, and the first in autumn occurred about November 18 generally. The average latest spring killing frost date for 1928 was March 28, or five days later than normal, and the average earliest 3 days longer than normal.

The mean annual temperature was 62.1°, or 0.9° below normal. The warmest month was July, with a mean of 79.5°; coldest month, January, with a mean of 44.7°. The highest annual mean at any station was 66.0° at Charleston; lowest annual

58.6° at Walhalla. The highest temperature was 102° at Marion and Darlington on June 21; lowest temperature, zero at Caesar's Head on January 2.

Seasonal temperatures, with departures from the 42-year normals: Winter,  $45.7^{\circ}$ ,  $-0.8^{\circ}$ ; spring,  $60.5^{\circ}$ ,  $-2.2^{\circ}$ ; summer,  $78.3^{\circ}$ ,  $-0.4^{\circ}$ ; autumn,  $63.8^{\circ}$ ,  $-0.1^{\circ}$ .

The average annual precipitation was 61,66 inches, or 13.79 inches above normal, and the highest annual average of record. The greatest annual amount at any station was 86.69 inches at Caesar's Head; least annual amount, 42.76 inches at Charleston. The greatest monthly amount at any station was 27.06 inches at Marion in September; least monthly amount, 0.05 at Wedgefield in November. The average number of rainy days was 102; greatest number at any station, 131 at Greenville and Wahalla; least number, 78 at Winthrop College. Average annual snowfall, 0.1 inch. Snowfall, ranging from Traces to 2.5 inches occurred on a few scattered dates in January, February, March, and December.

During the growing season, March to September, inclusive, the total precipitation was 50.63 inches, or 19.34 inches above normal.

Seasonal precipitation, with departures from 42-year normals: Winter, 8.40, -2.99 inches; spring, 15.49, +4.95 inches; summer, 22.61, +5.96 inches; autumn, 15.16, +5.87 inches.

Freshets occurred in the Santee and Pee Dee River Districts in portions of the period from February to October, inclusive. General floods occurred in May, August, and September, with record breaking flood crests in the lower Broad River in August and the Black River in September.

The average annual atmospheric pressure was 30.07 inches. The highest pressure was 30.69 inches at Due West on January 6; the lowest pressure was 28.93 inches at Charlesten on September 18.

The average annual sunshine was 61% of the possible amount. The average annual number of clear days was 183; partly eloudy, 81, and cloudy, 102, as against normals of 173, 97, and 95 days, respectively

The average annual relative humidily at 8 a. m. was 81%; noon, 58%. and 8 p.m., 68%.

The prevailing wind was from the southwest. The average annual hourly velocity was 7.0 miles. The highest velocity for any 5-minuite period was 59 miles per hour from the east at Charleton on September 18.

# WEATHER BY MONTHS.

January.-The month opened with the coldest weather in years, which more than offset the subsequent period of extended heat that equaled or exceeded maximum readings in some sections. Rainfall was decidedly below normal. Wind squall damage approximated \$6,000. Snowfall occurred in most inland sections on the 3d and at some northwestern stations on the 28th.

February. - The first half was mild, and the latter half rather eool, with the mean temperature somewhat below normal, autumnal killing frost date was November 18, or 8 days later than normal. The growing season was 235 days in length, or at a few stations on the 13th and 18th. Moderate freshets occurred in several streams during the latter part of the month.

March.-Precipitation and temperatures ranged close to normal, but thermal changes were frequent. Measurable snow-(CONTINUED ON PAGE 52.)

# Climatological Data for the Year 1928.

				Cl	imat	ological	Data	for the	Ye	ar 19	28.										
~			Tem	perat	ure (d	egrees Fa	hrent	eit).			Prec	ipitatio	on (in	ehes).					Sky.		Jo u
Stations.	Counties.	á		Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record,	Total for the year.		Greatest monthly.	Month.	Least monthly.	Month.	Total snowfall.	umber rai	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction wind.
EASTEIN PORTION.  Beaufort (near)  Blackville.  Charlestou  Cheraw  Conway  Darlington  Edingham  Forguson.  Florence 1.  Florence 2.  Georgetown  Kingstree  Marion.  Mars Bluff.  Orinopolis*  Rimini  Society Hill  Summerville  Summerville	Charteston Chesterfield Horry Darlington Florence Florence Florence Hornten Georgetown Williamsburg Florence Grangeburg Grangeburg Berkeley Clarendon Darlington	21 296 48 144 25 175 106 63 136 82 12 54 92 264 54 97 75 249	45 56 47 32 29  40 47 11 36 47 1	55.6 56.0 51.2 54.1 63.4 64.9 64.1 63.2	99 99 100 101 101 102 101 101 100 101 98 102 98 98 98 98	June 18 June 20 June 20 June 21 June 21 June 21 June 21 June 21 June 21 June 20	12	Jan. 2 Jan. 4 Jan. 4 Jan. 5 Jan. 5 Jan. 4	1: 1 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 42.7 56. 0 63.4 4 63.4 4 67. 76.6 77. 66 67. 79.5 78.3 64.2 56. 65.7 65.8 58.8 58.8 58.8 58.8 58.8 58.8 58.8	.76 .11 .27 .64 .27 .53 .55	13. 68 14. 30 14. 63 20. 53 25. 30 17. 77 21. 33 20. 96 16. 38 17. 78 17. 95 27. 06 20. 02 16. 99 9. 85 18. 89 14. 08	Sept.	0. 09 0. 43 0. 18 1. 10 1. 13 0. 88	Nov. Nov. Jan. Nov. Jan. Nov. Nov. Nov. Jan. Nov. Jan. Nov. Jan. Nov. Jan. Nov. Jan. Nov. Jan.	0 0 0 T. 0.5 T. 0.2 T. 0.2 T. 0.2 T. 0.7 T.	89  106 86 127  104 113 112 101 125 100 112 107 106 85 106 85 106 91 105	198 173 227 153 241 173 233 183	105 138 4 4 102 118 32 105 61 65 34	66 75 107 108 108 182 68 149	S. SW. SW. SW. SW. SW. SW. SW. SW. SW. S
Division means and western portion, Aiken Anderson Blairs Casar's Head.	extremes.  Aiken Anderson Fairfield	527 764 293 3118	65 32 5	63.8 63.9 61.0	95 95 95	July 4- July 23 June 21	8 8 3		2 6	67 63 36 53 24 5	8. 88 3. 69 7. 96 6. 69	27.06 13.17 12.24 12.22 20.02	Sept.  Sept.  Aug.  Aug.  Aug.	0.29 0.86 0.42 2.86	Nov. Dec. Nov. Jan.	T. 0.2 T. 0.2	91 119 86 102	226 246	24 14	116 106	ne.
Calhoun Falls Camden Catawba Chappells Cherokee (near) Chester Clenson College	Abbeville Kershaw York Newberry Chester Oconee	402	12 50  1 7 34 42	60.6	100 100 96 94 98	July 4 June 21 July 20 June 21 June 21 June 21	4 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10	Jan. Jan. Jan. Jan.	4†	80 81 23 4 24 6 1 7 87 5 42 6	4.26 3.41 8.21 2.77 4.46 1.99	12.57 23.29 11.47 12.19 19.75 9.90 8.87 14.64	Aug. Sept. Aug. Aug. Sept. Aug. Sept.	0.21	Dec. Nov. Nov. Dec. Nov. Nov. Nov. Nov.	T. 0.1 T. 1.0 T. T. 0.2 T.	80 105 86 102  108 115 107	150 175 138		90	w. 11e.
Columbia Crescent  Due West Edgefield Gaston Shoalsi Greenville  Greenwood Heath Springs Hogback Mountain	Abbeville	711 680 989 671 568 3025	15 45 45 27 3	60.6	96 94 96 96	July 4 July 5 June 20	5	Jan. Jan. Feb.	2 2	15 4 16 26 6 45 5 45 5 27 5 3	19.48 19.48	15, 93 13, 90 10, 23 13, 04 13, 36 14, 68 11, 26	Aug. Aug. Aug. Aug. Aug. Sept.	0.24 0.88 0.56 0.50	Nov. Nov. Nov. Nov. Nov.	T. T. 0. 2 0. 1 0. 2 T.	119 105 131 102 89	134 125 150		155	ne. W.
Landrum Landrum Landrens Little Mountain Lockhart  Newberry Pelzer	. Kershaw	. 500 1063 549 711 336	11 36 25	61.9 59.7 62.6 61.0 	97	June 2	1	Jan. Jan. Jan. Jan.	2 2	14 6 11 6 37 8 3 25 25	56.79 50.75 64.64 58.47 54.91 57.80	15. 39 14. 73 17. 16 15. 71 11. 60 13. 19	Aug Aug Aug Aug	1.30 0.61 0.56	Dee. Dee. Nov.	T. T. 0.4	115 110 89 97 121 125	199 193 196 201	96 126 86	71 3 47 8 8	w. sw. w.
Saluda Santuck Spartanburg Trenton Walhalla Winnsboro Winthrop College ‡ Division means a	Saluda Union Spartanburg Edgefield Oconee (do York nd extremes.	536 512 878 620 1061 544 690	2 36 52 34 1 27 5 35 0 29	61.6 59.7 58.7 63.4 58.6 61.6 60.9 60.5	98 97 95 96 99 98	June 2 June 2 July July 2 June 2 June 2 June 2	1 1 2 2 1 0†	Jan. Jan. Jan. Jan. Jan. Jan. Jan. Jan.	4 3 2 2 1 2 	36 50 36 29 35 29	59.06 59.06 63.74 64.38 55.56 48.78 59.59 61.66	15. 52 16. 50 12. 06 12. 88 11. 53 10. 75 23. 29 27. 06	Aug Sept Aug Sept Aug Sept Aug Sept Aug	0.51 0.36 0.57 1.10 0.67 1.0.67	Nov Nov Nov Dec. Nov Nov	0.3 0.2 0.5 0.2 T. T.	91 87 131 90 78 3 108	7- 145 183 13 13 17	2 13 5 10 3 17 4 9	7 6 7 8 5	7 sw. 5 sw. 5 sw. 5 s.

†On other dates also.

\*\* Temperature data are from observed readings of the dry bulb; means are computed from observed readings.

†\* Postoffice addresses of these stations are as follows: Of Gaston Shoals, Blacksburg; of Winthrop College, Rock Hill.

			_		_																					
			Mon	thiy	and	Annu	al P	recipit	atio	n for	the	Year	1928	9, wi	th D	epart	ures	from	the .	Norm	ai.					
	Jan	nuary.	Feb	ruary.	Мε	rch.	A	pril.	M	lay.	Jı	ine.	Jı	nly.	Au	gust.	Sept	ember.	Oct	ober.	Nove	ember.	Dece	mber.	An	nual.
Stations.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
astern polition. ufort	0. 4:	2 -2.05 3 -2.59 5 -1.86	7.41	+6.12 +4.36 +1.56	6, 73 3, 08 3, 02	+3.44 +0.06 -0.52	3, 42 6, 32 2, 54 7, 00	2 + 1.06 2 + 3.08 3 + 0.01 5 + 3.95	2. 24 5.26 1.65 4.96	-1.04 +1.58 -1.95 +1.35	1 5.57 3 1.08 5 2.75 5 5.44	+0.37 -1.38 -1.84 +0.30	5. 95 6, 26 5. 16 3. 34	-0.16 +0.76 -1.73 -2.76	5 1.99 5 10.89 3 2.82 5 5.16	-1.6 +1.8 -3.7 -1.1	7 12.6 8 13.6 1 14.3 7 15.1	2 + 8, 82 5 + 9, 50 0 + 9, 77 9 + 1163	1.27 0.70 1.07 2.20	-2.01 -2.05 -2.20 -0.56	0. 18 0. 19 1. 03 0. 18	-1.99 -1.56 -1.11 -2.00	1. 65 2. 43 1. (9 2, 78	-1.24 -0.84 -1.63 -0.45	51.86 42.76 56,11	+ 5.63 - 2.46 + 9.47
way lington igham guson	1. 1: 1. 3: 1. 5:	2. 42 3 -1.79 5 -2. 15 -2. 08	7. 51 6. 82 5. 18	+3.90 +2.11 +1.38	2.80 4.53 3.19 3.79	-0.76 +1.57 -0.59 +0.55	7.31 4.10 8.07 8.15	+4. 19 +0. 81 +4. 69 +5. 19	6, 70 4, 43 6, 08 5, 31	+3,60 +0.77 +2,43 +1,24	5. 23 5.57 8. 38 3. 71	+0.08 +0.13 +2.45 -1.89	7.42 2.67 8.69 7.66	+0.71 +1.95 +2.57 +1.02	6. 04 4. 95 7. 80 9. 41	-1.7 -0.10 +1.90 +2.60	9 14, 63 0 20, 53 9 25, 30 0 17, 7	$     \begin{array}{r}       49.75 \\       41653 \\       +2114 \\       7 +1389     \end{array} $	1.72 2.35 3.20 1.24	$ \begin{array}{r} -1 & 52 \\ -0.59 \\ +0.27 \\ -1.72 \end{array} $	1, 41 0,88 1, 12	-0.82 -2.17 -1.01	2.37 2.00 2.88 2.42	-0.87 -0.81 -0.29 -0.64	63.27 82.64 67.27	+12.78 +33.45  +18.53
ence 1ence 2ettgetown	1. 87 0. 99 0. 61 0. 75	-1.66 $-2.04$ $-1.96$ $-2.59$	6.36 6.13 8.41 9.01	+2.27 +2.04 +4.94 +4.98	3.68 3.59 4.73 2.32	+0.36 +0.27 +1.00 -0.15	6. 47 5. 37 8. 74 6. 77	+3.54 +2.44 +6.12 +3.47	7. 00 6. 12 4. 16 1. 90	+2.98 +2.10 -0.56 -1.79	6. 85 5. 30 5. 41 5. 81	+1.58 +0.03 -1.52 +0.11	11, 24 12, 82 7, 34 7, 33	+5, 86 +6, 94 +1, 46 +0, 57	5. 41 4. 99 8. 64 8. 84	+0, 0° -0, 31 +3, 33 +2, 1°	7 21. 83 5 20. 96 9 16. 38 2 14. 78	3 + 1726 $5 + 1689$ $5 + 1255$ $5 + 1037$	2,73 2,92 1,16	-0.24 -0.05 -1.32	0. 74 0. 76 0. 29	-1.31 -1.29 -2.20	3.85 3.60 1.27	+0.43 +0.68 -2.70	76. 53 73. 55 67. 17	+30,64 +27,66 +17,91
zstree ion s Bluff ageburg polis	1, 25 1, 68 0, 82 1, 07 0, 91	-2.11 -2.31 -2.21	5. 28 4. 12 5. 94 6.00 5. 66	+1.44  +2.55 +2.15	2.77 3.65 3.10 2.69 3.57	-0.62 -0.89 -0.01	7. 49 6. 60 7. 51 6. 40 6. 25	+4.69 +4.69 +3.24	3.69 7.65 7.96 5.57 3.14	+0.32  +1.18 -0.55	4. 25 2. 71 4. 66 9. 59 6. 45	-0,93 +5.10 +0.76	10.92 13.34 9.85 6.24 8.78	+4.34 -0.93 +1.99	7. 22 5.48 6.77 5.59 7.80	+1.08 +0.66 +0.99	8 17. 98 27. 06 20. 09 16. 99 9 . 88	+1378 +1332 +1332 +5.19	2, 23 3, 44 2, 74 1, 92 0, 96	-0.53 -0.10 -2.02	0. 99 1. 13 1. 07 0. 10 1.53	-1.09 -1.40 -0.86	2.75 2.17 3.16 2.38 1.76	-0.29 -0.56 -1.23	66, 79 79, (3 78, 60 64, 54 56, 66	+20, 66 +21, 12 + 7, 37
ini ety Hill merville gefield assee	0.10 1.17 0.66 1.10 0.88	-3.67 -2.00 -2.49 -2.52 -1.94	5, 46 6, 17 7, 96 6, 25 7, 85	+2.40 +1.80 +4.04 +2.20 +4.30	1,20 3,39 4,85 3,81 4,61	$     \begin{array}{r}       -2.18 \\       +0.07 \\       -1.55 \\       +0.40 \\       +1.20     \end{array} $	6. 30 7. 53 6. 31 7. 15 7. 24	+3, 25 +4, 07 +2, 86 +4, 06 +4, 35	2.68 4.47 2.06 3.83 2.59	-1.71 $+0.89$ $-1.58$ $+0.50$ $-1.25$	4. 30 5. 38 6. 21 4. 13 4. 97	$   \begin{array}{r}     -0.02 \\     +0.06 \\     +0.51 \\     -0.64 \\     -0.59   \end{array} $	7, 31 5, 69 10, 78 6, 87 9, 96	+0,55 -2.36 +3.77 +1.85 +2.89	6.90 6.06 4.48 12.29 6.10	+1.88 +0.38 -2.63 +6.60 -0.18	18.89 14.08 16.16 17.82 15.76	+1511 +9.92 5+1145 2+1400 5+1156	1.45 2.06 0.62 1.35 2.38	-0.98 -0.82 -2.71 -1.36 -0.45	0. 37 0. 63 1. 11 0. 05 0. 45	-1, 34 -1, 55 -1, 21 -2, 12 -1, 62	2.86 2.12 1.64 2.70 1.16	-1.42 -1.12 -1.92 -0.56 -2.29	57.82 58.66 65.75 67.38 63.97	+11,29 +10,71 +14,65 +22,41 +15,98
rision means and lepartures.	0. 99	-·2.0s	6.58	+2.54	3.58	+0.08	6.50	+3.46	4. 49	+1.00	5,30	-0.16	8.33	+2.61	6.51	+0.21	17. 32	+1321								+17.00
ESTERN PORTION.																										
nerson rs rs Head									0				0. 10		EG! OF		10.00	*****	0.01		0.11		D. 19		80. 69	+18.28 + 6.23 +14.85
oun Falls den wba pells okee(near)	1. 37 1. 26 1. 72 1. 37	-2.87 -2.27 -2.11 -2.30	3, 35 6, 23 3, 86 3, 79 3, 42	-2.01 +2.32 +0.68 -0.34	4. 53 4. 10 2. 95 3. 37 4. 17	-0.33 +0.41 -1.16 -0.47	6. 95 10. 65 5. 34 6. 65 4. 65	+3. 38 +7. 54 +2. 11 +3. 71	5, 40 4, 87 3, 64 8, 47 4, 20	+1. 42 +1. 66 -0. 14 +5. 43	3. 68 13. 94 4. 29 4. 88 7. 72	-0.23 +9.42 -0.09 +1.33	7.41 5.87 1.60 6.65 5.63	+2.25 +0.56 -4.49 +1.84	12. 57 8. 12 10. 49 12. 19 19. 75	+8.01 +2.77 +5.59 +8.06	4. 63 23 29 11. 47 10, 56 8.18	+0.89 +1957 +8.12 +7.22	2.41 2.10 1.13 2.58 0.91	-0.39 -0.51 -2.19 +0.07	1. 07 0. 24 0. 40 0. 58 1. 05	-1.25 -2.09 -1.96 -1.60	0.89 2.74 1.32 1.68 0.81	-3.62 -0.69 -2.51 -2.64	54. 26 83. 41 48. 21 62. 77	+ 5.25 +38.69 + 0.29 +20 31
terson College mbia eut West.	3.10 0.83 2.50 2.30	-1.91 -2.46 -1.50	3 67 5.41 3.30 2.65	-1.78 +0.70 -2.51	4.54 2.90 4.90 4.15	-0.02 -0.80 -0.26	5.75 6.39 5.96 5.96	+1.82 +3.53 +3.73	8, 87 5, 33 4, 70 6, 42	+4.92 +2.14 +2.57	5. 95 2. 79 5. 99 3. 89	+1.12 -1.39 +0.15	5. 24 9. 78 3. 11 2. 44	-0.04 +3.72	8. 87 10. 19 15. 93 13. 90	+3.87 +3.41 +9.87	9, 90 3, 97 14, 64 9, 63 4, 03	-0.13 +1119 +0.58	1.87 2.26 1.70 1.21 1.78	-1.04 -1.15	0.90 0.99 0.21 0.28 0.76	-1,80 -2,62	2.84 1.25 1.82 1.03	-4.01 -1.08	54. 46 61. 99 58. 54	+ 1.00 +15.91 + 5.74
field on Shoals nville nwood h Springs	2.80 1.90 2.99 1.91 1.00	-1.89 -2.46 -1.52 -2.10 -2.69	4.65 3.97 3.30 3.96 4.34	+0.82 -0.53 -1.94 +0.06 +0.44	2. 23 4. 91 4. 24 3. 59 2. 45	-1.56 +0.09 -1.15 -0.53 -0.75	6, 81 5, 32 5, 66 6, 20 7, 34	+3.15 +1.69 +1.88 +3.13 +4.09	5. 99 6. 21 4. 47 6. 68 3.68	+2.79 +2.60 +0.16 +2.94 +0.43	4.18 6.69 4.36 4.10 6.51	+0.82 -2.11 -0.44 -0.18 +1.34	10. 74 7. 43 7. 58 4.42 3. 50	+5.32 +2.88 +2.01 -0.79 -1.51	10,23 13,04 13,36 14,68 7,98	+6.78 +7.78 +7.72 +9.68 +2.54	10. 42 3. 94 4.74 11. 26	+7.07 +0.13 +1.31 +8.13	1.70 1.07 1.84 2.11 1.47	-0 81 -1,89 -1,30 -0,72 -1,05	0.49 0.24 0.88 0.56 0.50	-1.18 -0.49 -2.22 -2.10 -1.66	1. 92 1. 69 1. 51 1. 30 1. 66	-1.69 -2.18 -3.27 -3.05	62.29 54.18 54.25 51.69	+13.67 + 0.43 + 6.79 + 6.97
																										+13.54 + 4.83 +11.48 +20.93
hart Derry Fr. la Lock	1.73 0.84 2.66 0.65	-3.22 -2.12 -3.03	3. 23 4. 40 3. 78	+0.06 -1.17	4.11 3.30 5.34 3.29	-0.51 +0.59	6. 09 5. 74 6. 06 6. 19	+2.56 +2.04	3.48 6.20 6.09	+2.57 +1.88	3. 68 5. 98	-0.45 +2.09	5. 68 4. 94 5. 00	+1.02 -0.63 -0.18	15.71 11.60 13.19	+1065 +7.22 +8.23	7.60 4.38 8.45	+4.38 +0.77 +5.14	2.29 2.04 1.55	-0.21 -1.38 -1.23	0.86 0.44 0.52	-1.68 -2.82 -1.96	2. 17 - 1. 60 -	-2. 10 5 -3. 74 5	58. 47 54. 91	+13.03 + 3.23 +12.81 +14.89
tanburg ton alla sboro hrop College	1.77 1.12 3.20 1.15 0.55	-2.28 -2.51 -1.65 -2.50 -2.26	3. 40 - 4. 58 - 3. 40 - 4. 12 - 4. 00 -	-1.35 -0.34 -2.03 -0.21 -0.18	4. 92 2. 79 5. 53 3. 24 3. 93	+0.11 -1.44 -0.55 -0.70 +0.53	5. 70 7. 52 5. 51 6. 60 5. 30	+2.42 +4.04 +0.68 +3.66 +2.01	4. 45 5.17 5. 81 4. 06 3. 46	+0.33 +1.93 +1.17 +0.71 -0.75	5. 17 5. 39 5. 66 6. 89 6. 76	+0.76 +1.05 +0.91 +2.51 +2.03	5. 65 9. 45 2. 64 3. 28 1. 69	+0.33 +3.95 +6.56 -1.73 -3.68	16, 50 11, 26 12, 88 11, 18 10, 75	+1118 +5.76 +7.06 +6.10 +5.42	8.00 12.06 4.04 11.58 9.89									+10.86 +16.40 + 5.60 +10.78 + 2.04
ision means and enartures.	1.80	-1.96 -2.06	4.03	-0.58	4.05	-0.31	6.32	+3.05	5. 72	+2.33	5. 77	+1.16	5. 80	+0.45	12,85	+7.45	9.14	+5.26	1.93	-1.10	0.70	-1.81	1.48	-2.80 5	9.59	+11.14

The departures from the normal precipitation are computed only for such stations as have ten or more years of record.

Monthly and Annual Mean Temperatures for the Year 1928, with Departures from the Normal.

	Janr	ary.	Febr	uary.	Mar	ch.	Ap	ril.	Ma	y.	Jui	ne.	Ju	ly.	Aug	ust.	Septe	mber	Octob	ber.	Nove	mber	Decen	nber.	Annu	aal.
									. 1		.		. 1			-	_1		.	-	<u>.</u>		. 1		.	
Stations.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature	Departure.	Temperature	Departure.	Temperature	Departure.	Temperature	Departure.	Temperature	Departure.	Temperature	Departure.	Temperature	Departure.	Temperature	Departure.
EASTERN PORTION. Beaufort (near) Blackville Charleston Cheraw	48.8	-1. i	51.7	10	57. 4 51. 8	0. 0 -2. 0	65. 4 64. 0 59. 4	-0.5 $-2.3$	71. 0 67. 4	-2.8 -1.7 -3.1	79.6 76.8	+0.7	81.0	-0.4 -0.4 0.0	81.0 82.0 79.8	+0.5 +1.0 +1.1	72.4 75.8 70.2	-3.4 -0.8 -3.4	70. 4 64. 5	+2.6 +2.2	57. 6 51. 8	-0.5 -0.6	52. 3 45. 6	+1.2	66.0 61.2	-0.9 -0.8 +0.3
Conway	44.2	-1.2 -1.8		-0.2 -1.4 +0.1	53, 2 55, 1	-2.5 -1.0	61.4		67. 6 68. 7 68. 4	-2.6 $-3.6$	77.4 78.8 78.1	+1.5 $-0.6$	79.6 80.3 81.2	-0.3 -0.8 -0.8	80. 2 80. 0 80. 8 81. 4	+1.0 +1.1 +2.4 +1.2	74.2 •71.4 74.3 72.9	-0.6 -3.2 -0.1 -0.4	67. 8 67. 2 67. 8 67. 1	+3.6 +3.7 +2.9	55. 4 52. 0 53. 8	+1.0 -3.0 -0.3	49.8 45.8 49.6 46.8	+1.0 0.0 +1.3 +1.2	63.4	-0.1 +0.1
Garnett. Georgetown Kingstree Marion Orangeburg	48.0 43.5 47.0	-2.5 +0.2 +0.1	50. 5 49. 4 47. 8	-3.1 +1.6	58.5 56.8 57.0 455.0 55.6	-0.5 -0.9 +0.1	63. 6 59. 6 62. 8 61. 8 60. 6	-3.7 -4.1 -0.6	70.0 68.8 68.8 68.6 67.0	-1.9 -3.1 -2.8 -3.3	78.4 78.9 77.4 79.0 76.4	-1.0 +0.4 -0.8	80.5 81.4 79.4 580.8 79.8	-0.6 +0.7 -1.0	81.1 81.8 80.1 81.1 79.4	+0.5 +1.5 +0.6	74. 7 76. 0 73. 4 72. 8 72. 8	-2.7 -0.2 -1.3 -2.7	68.8 68.2 67.0 68.1	+3.8	54.8 *55.6 54.8	0.0	50. 0 48. 4 49. 6	+1.9	64.1	+0.1
Pinopolis Society Hill Summerville Wedgefield Yemassee	45.9 46.2 48.4	-1.9	50.1 44 2	+1.0	56.3 51.2	-0.5 $-3.1$	62, 6 656, 6	+0.4 $-5.1$	66. 5 65. 8	-3.5 $-4.7$	75. 4 75. 3	÷0.8 ÷2.0	78. 7	-0.9 +0.7 +0.4 -0.9	*79.0 81.7 80.1 80.4	+0.4 +2.2 +2.0 +0.5	70.2 75.4 73.8 74.8	-2.9 -3.4 +0.1 -0.2 -0.8	66. 8 67. 3 69. 8 68. 6 69. 2	+4.7 +4.1 +4.4 +3.6	54. 4 55. 4 55. 4	-1.4 +1.4 -0.4	19.5 49.5 46.5 50.9	+0.8 -0.1 -1.0 +3.7	64.4 63.8 64.8	-0.3 +0.6 +0.1
Division means and departures.	46.5			+0.5											80.7	+1.2	78. 4	-1.0	68.1	+3.3	54. 6	-0.1	48.8	-0.4	63.8	-0.2
western portion. Aiken Auderson Ciesar's Head Calhoun Falls Camden	39. 1 42. 6	-0.2	44.8	-1.6	*46 8	-0.0	50.4	-0.3	68.0	+0.	68.4 76.3	+0.5	71. 4 80. 4		71.4 80.0 80.4	+1.8	62.8 72.0 72.4	-1.5	57. 2 65. 8 67. 4	+4.5	45.5 49.8 52.4	+0.3	39.8 42.7 44.2	-4. 2	61.1	+0.3 -0.1
Cherokee (near) Chester Clemson College Columbia	42. 4	+0.1 +0.0	41.8 1 45.6 6 47.4 5 44.9	+1.7	51. 2 7 53. 2 8 55. 4 5 59. 4	+0.5 +0.2 -2.8	56.0 58.2 61.4	-1. -1. -2.	64. 6 66. 0 69. 3 9 66. 6	-2. -2. -2.	73. 1 73. 8 77. 6 75. 0	-1.1 -0.1 -2.1	77. 6 78. 6 80. 8	+0. -0. 0.	9 79.4 1 80.4 0 78.6	+2.1 +0.8 0.0	69. 6 69. 6 71. 2 73. 6 70. 1	-1.5 -1.5 -3.6	64.5 65.4 67.2 65.0	+3 8 +2.9 +2.9	49.8 54.0 51.4	-1.1 0.0 -1.0	43. 6 47. 3 44. 4	+0.1 +0.1 -1.2	60. 6 63. 4 60. 6	+0.1 -0.2 -1.3
Greenville Greenwood Heath Springs Hogback Mountain Kershaw			444.8	+0.	2 50.8	-3.	57.	1 - 3.4	6 66.2	-3.	5 74.6	-2.	78.	5 -0.	8 77.6	-0.1	68.8	4.8	64.2	+1.0	51.6	-0.	1849 0	+2.6 +1.3 +1.1 +0.1		
Landrum Laurens Little Mountain Newberry Salnda	. 42. 5 . 43. 8 . 44. 0	+0. +1. -1.	4 44. 6 6 45. 6 4 14. 4	6 +0. 6 -0. 4 +0.	1 51.3 2 52.8 5 58.3	-0.: +0.: -2.: -0.:	5 58. 5 58. 3 58.	6 -3. 8 -1. 4 -3. 8 -2	4 65.5 5 67.5 4 65.8 8 68.6	-0. -0. -5. -2.	9 72.8 3 75.8 4 75.1 6 *76.7	3 -2. -0. -2. -1. -2.	5 77. 8 80. 8 79. 9 80. 0 79.	9 +0. 4 +1. 1 -0. 50. 20.	8 76.1 9 80.1 9 78.1 2 80.1 9 78.1	+0. 0 +2. 4 -0. +0. +0. 1 +0. 2 -1.	5 69.0 2 71.0 8 71. 4 71. 1 71.	-4.6 -2.8 1 -3.8 5 -4.4 6 -3.0	64. 0 65. 6 64. 9 66. 0 66. 0	+1.3 +3.5 +0.5 +2.5 +2.7	51.4 2 52.8 9 52.5 6 52.8 7 54.9	+0.5 3 +2.5 4 -1.6 5 +0. 2 +2.5	2 43.6 8 45.0 0 45.1 4 46.0 8 44.0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	59.7 62.6 61.0 61.9 61.6	7 -0.0 5 +1. 6 -2.0 9 -1. 6 -1.
Santuck Spartanburg Treuton Walhalla Winnsboro	. 42.2 . 40.1 . 46.8 . 40.8	2 -0. 1 -1. 8 +0. 8 -1.	8 43. 6 5 41. 6 2 48. 6 5 41. 6	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 51.3 5 49.4 3 *56.1 2 50.1	5 -1. 8 -1. 8 +0. 6 -0.	7 57. 6 56. 6 61. 9 56.	4 -3. 0 -4. 9 -1. 0 -2. +0	1 63.1 3 64 0 69.1 8 64.1	1 -6. 3 -4. 3 -2. 9 -1. 2 -2.	7 71.9 8 74.0 0 75.9 9 72.0 4 76.0	-5. -2. -2. -2. -2. -2. +1.	0 *79. 4 78. 6 79. 6 77. 9 *80. 3 80.	4 -0. 4 -0. 6 +0. 0 -0. 0 +0. 2 +1.	2 79. 9 77. 6 79. 5 76. 4 80. 9 79.	4 +1. 5 -0. 6 -0. 0 +0. 2 +0.	6 69. 9 67. 0 73. 9 68. 8 71. 9 69.	8 -3.3 7 -4.4 4 -1. 7 -2. 9 -1. 2 -4.	64.6 6 62.2 9 67.9 9 63.0 8 66.1 0 64.8	+2. +1. +3. +2. +3. +2. +2.	7 50.4 2 49.1 3 54.3 4 49. 7 51. 4 51.	4 -0. 6 -1. 8 -0. 6 -1. 9 -0. 6 -0.	6 42.9 1 42.9 6 47.3 0 41 1 1 44.6	0 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1	59.7 2 58.7 1 63.4 1 58.6 6 61.6 8 60.9	7 -1. -1. +1. -0. -0. -0.
Winthrop College  Division means and departures.  Section means and departures.	43. 9	3 -0.	9 44.	8 -0. 2 -1.	1 52.	6 -1.	1 58. 9 59.	3 -2. 9 -2.	8 67. 4 67.	$\begin{vmatrix} -3 & -3 \\ -3 & -3 \end{vmatrix}$	4 74.5 2 76.	8 -1.	9 78. 5 79.	9 -0. 5 -0.	. 4 78. . 2 79.	6 +0. 4 +0.	3 70. 5 72.	3 -2.	9 64.9 8 66	9 +2.	3 51.	6 -0.	7 44.		1 60.5	5 1.

The departures from the normal temperature are computed only for such stations as have ten or more years of record.

Reference letters (\*, \*, \*), appearing in the table indicate number of days missing; For example, \* represents two days missing, etc.

# WEATHER BY MONTHS.—Continued. (CONTINUED FROM PAGE 49.)

Light hail occurred in isolated sections on the 27th and 30th. streams during the month. Wind squall damage approximated \$12,000, and several persons were injured by lightning on the 30th. The Santee River was tion averaged somewhat above normal. Hail damage approx close to or above flood stages during the month. Late spring mated \$2,000. A tornado injured two persons, and caused about freezes were quite general up to the 22nd, and in some western sections on the 31st.

April.-Precipitation averaged the greatest of record for this month in 42 years. The temperature was considerably below normal. One person was killed by lightning, and one was injured. Hail, lightning, and wind damage approximated \$6,000. Moderate freshets occurred in several streams. Late spring freezes occurred in some northern sections as late as the 17th.

May.—Temperatures averaged much below normal, and precipitation was in excess. Three persons were killed by light fall occurred at Caesar's Head on the 4th, and scattered flurries ning. Hail damage was estimated at \$1,000, and lightnin were reported at several northwestern stations on the 18th. damage, about \$500. Moderate freshets occurred in man

June. - The month was cooler than usual, and precipita \$60,000 damage at Easley on the 29th, and a series of rain storms and severe wind squalls in northern Spartanburg Count caused general damage estimated at \$150,000. Floods occurre in several streams during the month. One person was kille by lightning.

July .- Thermal conditions and precipitation were near th Freshets occurred in several streams during the month.

August.—One of the stormlest Augusts of record. Six tormadoes killed two persons and injured 11. Revised statistics how that the aggregate damage to crops, live stock, and property by tornadoes, wind squalls, excessive rains, and floods approximated \$3,393,100. of which nearly \$1,000,000 reprenented property and crops outside the flood districts. One person has drowned in the flood below Columbia.

September.—Another very stormy month, with disastrously leavy rains about the 5-6th, and a hurricane about the 17-19th urther aggravated already bad conditions in the flood districts; in fact the worst conditions since July, 1916. Five persons were killed, and 11 were injured in railroad washouts incident to cods. Coming as it did, during the season of fruition of crops, form stress caused immediate and resultant damage approximating \$3,357,350, of which about \$1,000,000 represented crops and general farm property, and about \$500,000 represented hade and forest trees, ruined except for firewood and some miber. One person was killed by lightning.

October.—A mild and dry month. Floods from the Sepember rains subsided generally by the middle of the month. killing frost occurred in upper Greenville County on the 31st.

November.—Remarkably dry, but somewhat colder than sual. Killing frosts were fairly general during the first week, he freezing temperature line reaching the coast by the 26th.

December.—A mild winter month, with precipitation dededly below normal. Snow flurries occurred up-State on numrous dates, and measurable snowfall was measured at Hogack Mountain on the 20th and 27th.

COMPARATIVE DATA FOR SOUTH CAROLINA.

		Te	mperatu	re.	Precip	itation	Aver	age num days.	ber of	ling lirec-
	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear,	Partly Cloudy.	Cloudy.	Prevailing wind direc-
88899399999999999999999999999999999999		62. 3 62. 6 63. 0 63. 0	110 108 102 102 102 102 103 104 105 105 105 105 105 105 105 105	5 13 10 11 11 13 13 3 1 -6 6 3 3 1 -6 10 10 10 10 10 10 10 10 10 10 10 10 10	43, 43 54, 673 54, 68 55, 68 55, 68 56, 68 56, 68 57, 68 58, 68 5	101 104 186 188 188 188 188 188 188 199 107 107 191 191 191 110 110 110 110 110 110 110	154 4 163 168 168 169 169 169 169 188 169 169 189 189 189 189 189 189 189 189 189 18	123 116 119 102 111 101 102 102 102 102 102 103 113 113 113 114 111 111 111 111 111 11	888 95 95 1111 1089 96 96 96 1111 1111 93 37 73 73 83 83 83 84 88 88 88 88 88 88 88 99 99 99 99 99 99	SW.

† Also other directions.

MONTHLY AND ANNUAL CLIMATOLOGICAL DATA FOR SOUTH CAROLINA, YEAR 1928.

-		50	,01	n	OAL	OLIT	A, I	E.B	IC I	1021	э.					
	Те	mpera	ture		Pre	ecipitut	lon.	Relative	humidity.	possible sun-		Sun of d				ind. pAne
Months.	Mean.	Departures.	Highest.	Lowest.	Average.	Departures.	Greatest local monthly amount.		Average Noon.	Percentage of possibine.	Rainy.	Clear.	Pertly Cloudy.	Cloudy.	Average hourly velocity.	Prevailing direction.
January February March April May June July August September October November December	44. 7 46. 2 53. 9 59. 9 67. 7 76. 0 79. 5 79. 4 72. 1 66. 4 52. 8 46. 1	-0.8 -1.2 -0.9 -2.4 -3.2 -1.5 -0.2 +0.5 -2.3 +2.7 -0.5	81 75 88 89 94 102 100 98 96 92 85 78	19 28 40 47 58 59 38 32 11 15	3. 87 6. 40 5. 22 5. 58 6. 81 10. 22 12. 53 1. 91 0. 72 1. 87	-0.03 +3.83 +1.65 +0.75 +0.88 +4.83 +8.43 -1.03 -1.53 -1.65		80 6 78 5 76 5 80 5 89 6 89 6 89 6 89 6	51 67 58 68 56 64 52 63 59 72 50 76 55 81 57 80 50 66 54 64 69 66	52 58 60 64 64 63 62 63 62 63 64 57 66 64 56	9 11 9 9 12 11 12 10 5 3 6	15 16 13 15 13 14 17 19 15	4, 7, 5, 9, 8, 11, 5, 8, 6,	10 10 8 8 8 8 7 11 6 10		W. W. SW. SW. SW. SW. He. e. SW. ne,
Annual	62, 1	*-0.9	102	0	61.66	*+1379	27.06	81 5	8 68	61	102	183	81	102	7.9	sw.

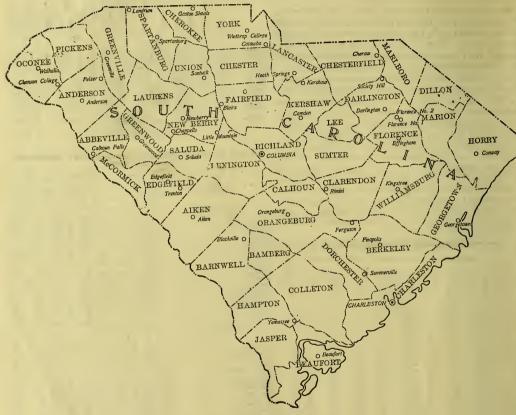
<sup>\*</sup> From 42-year averages.

# KILLING FROST OR FREEZING TEMPERATURE DATES AND GROWING DAYS.

	19	28.	Avera	ges—all re	ords.
Stations.	Lastin spring.	First in autumn.	Last spring date.	First autumn date.	No. of grow- ing days.
EASTEIN PORTION.  Beaufort (near) Blackville Charleston Cheraw Couway Derminon Plorence No. 1 Garnett Georgetown Kingstree Marion Ormnecburg Soriety Hill Summerville Wedgefield Yemassee Normal	Apr. 1 Mch. 22 Apr. 1 Mch. 22 Mch. 22 Mch. 22 Apr. 17 Apr. 1 Mch. 22 Feb. 19 Apr. 17 Mch. 22 Mch. 20 Mch. 19	Nov. 24 Nov. 26 Nov. 21 Nov. 21 Nov. 21 Nov. 21 Nov. 21 Nov. 13 Nov. 21 Nov. 21 Nov. 21 Nov. 21 Nov. 21 Nov. 21 Nov. 21 Nov. 21 Nov. 21	Feb. 24 Mch. 20 Feb. 20 Mch. 29 Mch. 23 Mch. 31 Mch. 23 Mch. 31 Mch. 10 Mch. 16 Mch. 16 Mch. 16 Mch. 15 Mch. 22 Mch. 13 Mch. 11 Mch. 12	Dec. 1 Nov. 12 Dec. 10 Nov. 3 Nov. 8 Nov. 2 Nov. 7 Nov. 11 Nov. 18 Nov. 15 Nov. 12 Nov. 14 Nov. 19 Nov. 19 Nov. 13	280 237 293 219 230 216 224 233 244 237 265 231 244 242 242
Averages for 1928  Alken Alken Anderson Caesar's Head Calhoun Falls Camden Cherokee (near) Cherokee (near) Clemson College Doe West Doe West Doe West Doe West Doe Greenville	Meh. 22 Meh. 19 Meh. 21 Apr. 28 Meh. 22 Meh. 22 Apr. 17 Apr. 1 Meh. 19 Meh. 22 Meh. 22	Nov. 21 Nov. 21 Nov. 21 Oct. 31 Nov. 13 Nov. 5 Nov. 11 Nov. 8 Nov. 21 Nov. 21	Mch. 16 Mch. 27 Mch. 11 Apr. 2 Mch. 18 Mch. 21 Apr. 3	Nov. 18 Nov. 5 Nov. 11 Nov. 3 Nov. 18 Nov. 10 Nov. 2	244 247 223 245 215 245 234 213
Greenwood. Heath Springs Kershaw. Landrum Landrum Little Mountain Newberry Saluda. Santuck Santuck Winsboro Withrop College Normal. Averages for 1928 Section Normal Section serages for 1928.	Apr. 17 Meh. 20 Apr. 16 Meh. 22 Apr. 15	Nov. 21 Nov. 12 Nov. 12 Nov. 21 Nov. 21 Nov. 14 Nov. 14 Nov. 26 Nov. 29 Nov. 11 Nov. 21 Nov. 5 Nov. 21 Nov. 14	Mch. 25 Mch. 29 Mch. 29 Apr. 9 Mch. 30 Apr. 5 Apr. 3 Mch. 30 Mch. 21 Apr. 8 Mch. 27 Mch. 27 Mch. 27	Nov. 8 Nov. 4 Nov. 8 Oct. 27 Nov. 11 Nov. 4 Oct. 26 Oct. 31 Nov. 1 Nov. 14 Oct. 29 Nov. 12 Nov. 12 Nov. 5 Nov. 7	228 220 224 201 231 219 204 211 216 238 204 230 221 225 229 232 235

Note.—Killing frost data in above table determined according to the following standard: Last or first clear or partly cloudy day with temperature of 22° or lower and last or first cloudy day with 12° or lower, but without rain, sleet or snow; in case of precipitation, then the next preceding or succeeding day with proper temperature and weather was used. The average number of growing days is the difference between the average spring and autumn killing frost dates.

# MAP SHOWING LOCATION OF OBSERVATION STATIONS.



KEY TO SYMBOLS.

- $\begin{tabular}{ll} \hline \end{tabular} \begin{tabular}{ll} Meteorological observations. & (Regular Weather Bureau Stations, including Greenville.) \\ \hline \end{tabular}$
- Meteorological observations. (Sub stations.)

# U. S. DEPARTMENT OF ACRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

Vol. XXXII. COLUMBIA, S. C., JANUARY, 1929. No. 1.

### GENERAL SUMMARY.

Temperatures and precipitation both averaged somewhat above normal, the single notable feature being a period of abnormal heat from the 15th to the 25th, inclusive.

Notwithstanding the warm, springlike weather about the middle of the month, tree fruits did not advance to a dangerous stage. Winter cereals and truck, though materially quickened during the warm period, maintained practically seasonable development incident to subsequent lower temperatures, but lettuce on the coast was somewhat ahead in growth. Spring plowing made satisfactory advance, and some hog killing was done as weather conditions permitted.

#### PRESSURE.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was 30.12 inches. The highest pressure was 30.65 inches at Due West on the 3d; the lowest pressure was 29.54 inches at Asheville, N. C., on the 6th, and in the Section proper, 29.67 inches at Greenville on the same date.

## TEMPERATURE.

The monthly mean for the Section, determined from reports of 42 stations, was 46.7°, or 1.2° above the normal. The ports of 42 stations, was 46.7°, or 1.2° above the normal. The highest temperature was 82° at Garnett on the 23d. The warm periods were on the 1st, 5-6th, 10-11th, and from the 15th to the 25th, inclusive, when the daily means ranged from 5° to the 25th, inclusive, when the daily means ranged from 5° to 23° above normal. The lowest temperature was 15° at Cherokee (near) and Walhalla on the 3d. The cold periods were on the 1st, 5-6th, 10-11th, and from the 15th to Cherakee, 1, 18, 23, 25; Columbia, 1, 18, 21, 22, 24, 25; Due West, 4, 14, 17; Greenville, 3, 9, 28.

Fog, dense.—Beaufort (near), 17; Calhoun Falls, 17, 18, 18, 22, 28; Charleston, 5, 17, 18, 18, 22, 28; Catawba, 18; Chappells, 22; Charleston, 5, 17, 18, 18, 21, 22, 24, 25; Due West, 4, 14, 17; Greenville, 3, 9, 28.

Fog, dense.—Beaufort (near), 17; Calhoun Falls, 17, 18, 22, 24, 25; Due West, 4, 14, 17; Greenville, 3, 9, 28.

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Fog, dense.—Beaufort (near), 17; Calhoun Falls, 17, 18, 18, 28; Due West, 4, 14, 17; Greenville, 3, 9, 28.

Fog, dense.—Beaufo kee (near) and Walhalla on the 3d. The cold periods were on Walhalla, 28; Winnsboro, 22, 23, 28; Yemassee, 18. clusive, when the subnormal temperatures ranged from 5° to 10° per day.

# HUMIDITY.

The mean relative humidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was as follows: 8 a.m., 82%: noon, 65%: 8 p. m., 71% The highest percentages occurred on the north-central border and along the lower coast, and the lowest, in the interior.

#### PRECIPITATION.

The average for the Section, 53 stations reporting, was 4.01 inches, or 0.46 inch above normal. Precipitation occurred n four periods in the eastern and five periods in the western portion, the rains being more or less intermittent in both secions after the 20th. The amounts were irregularly distributed,

with less than 3 inches in sections of of the northern interior, while in a large part of the State the measurements ranged from 4 to over 7 inches. The greatest local monthly amount was 7.16 inches at Conway; least local amount, 2.25 inches at Hogback Mountain. The greatest amount during any 24 hours was 2.80 inches at Conway on the 5th. The average number of rainy days was 25% above normal.

Snow flurries occurred at Walhalla on the 6th, and sleet at Cherokee (near) on the 27th.

The prevailing wind was from the northeast. The average hourly velocity, determined from 9 anemometer records, was 7.7 miles. The highest velocity for any 5-minute period was 37 miles per hour from the west at Greenville on the 31st.

# SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 171.0 hours, or 54% of the possible amount. The average number of clear days was 14; partly cloudy, 6, and cloudy, 11, as against normals of 13, 7, and 11 days, respectively.

#### RIVER CONDITIONS.

Nearly normal stages prevailed, and there were no floods in any of the streams.

# MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 14, 20; Columbia, 18, 19, 20; Due West. 18, 19, 20; Greenville, 17, 18, 20. Solar: Charleston, 15; Columbia, 9, 10, 19, 20, 30; Due West, 9, 10, 15,

# ERRATA.

December, 1923.—Luester, total rainfall, pages 46 and 47, should be 2.84. Greenwood, mean minimum temperature, page 48, should be 33.5. Little Mountain, greatest 24-hour precipitation, page 46, should be 0.65. Summerville, maximum temperature, page 46, should be 78 on 29th.

# MISCELLANEOUS DATA FOR JANUARY, 1929.

	1	1										
Stations.	r, sea	T'em degr	perat rees F	ure, ahr.	tie	ipita- on, ches.	Wis 3-cup		r	Mea: elati midi	re	of pos-
	Barometer,	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly yelocity, miles,	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage of
Asheville, N. C. Angusta, Ga. Charleston, S. C. Charlotte, N. C. Columbia, S. C. Due West, S. C. Greenville, S. C. Savannah, Ga. Wilmington, N. C. Means and ex. tremes.	30, 12 30, 13 30, 12 30, 12 30, 14 30, 17 30, 11 30, 13 30, 05	38.4 50.4 53.0 43.2 48.2 44.3 43.3 55.2 49.8	65 79 76 71 74 73 71 79 74	17 29 32 23 26 22 23 30 29	1. 89 3. 98 4. 66 2. 58 2. 82 3. 05 3. 82 3. 96 5. 64	0. 92 0.95 1. 85 0. 45 0. 89 0. 72 0. 82 1. 39 2. 79	9. 6 4. 5 9. 2 5. 2 6. 6 8. 8 7. 9 10. 6 6. 7	nw. nw. sw. ne. ne. w. ne. w. ne.	77 82 82 83 84 85 79 84 84	63 58 63 72 62 64 66 67 68	69 63 76 72 66  68 73 79	51 67 61 50 51 48 49 59 52
				- 1/	0 00	2. 19	7.7	w.	82	65	71	54

Climatological	Data	for	January,	1929.	

				(	limat	ologi	cal D	ata	for J	anv	ary,	1929.						-	- I	
		rd,	T	Te:	mperatu	ire, in	degree	es Fab	r.	1	Precip	itation,			Numb	oer o	f day:	s. :	direction	
Stations.	Counties.	Elevation, feet.	years.	Mean.	Departure Iron the normal.	Highest.	Date.	Lowest.		(treatest onus	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall,	With precipit on (0.01in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing dir	Observers.
Rastern Portion.  Beatern Portion. Beatern Portion. Beatern Portion. Conway Darlington Edungham Forgusonist Forgusonist Florence 1. Florence 2. Garmett. Georgetown Kingstree. Marion Mars Binit. Orangeburg Pinopolis Hinitial Society Hill Society Hill Society Hill Society Hill Control Portion.  Alken Anderson Blairs Florence Convention.  Alken Calhoni Falls. Camben Catavka Charveke (near) Checkerft Clemson College Columbia Crescent Die West Bigefield ff Gaston Shoals II. Greenwood Heath Springs Hogback Mountai Kershaw Laurens Little Mountain New Borry Peizer Sanda Spartamburg Trenton Walhale Spartamburg Trenton Walhale Winting Cilege Division means Section means	Marion Florence Ornugeburg Berkeley Sunter Darlington Dorchester Sunter Iliampton  **Attennes**  Aiken Anderson Fairfield Greentyllie A kershaw York Newberry Spartanburg Greenville Glerokee Greenville Greenvil	21 296 48 114 125 175 175 175 175 175 175 175 175 175 17	46 13 39 447 14 13 66 13 39 40 47 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	52.8 52.8 54.7 53.0 45.4 49.2 51.0 49.2 51.6 60.4 49.2 51.6 60.4 49.2 60.4 49.2 60.4 49.2 60.4	+1.2 +1.2 +3.1 +1.5 +2.9 +2.2 +3.1 +3.1 +3.0 +3.8 +4.0 +1.1 +3.1 +4.0 +4.1 +4.1 +4.1 +4.1 +4.1 +4.1 +4.1 +4.1	79 72 78 78 *76 78 *76 78 *82 79 78 80 80 81 66 67 74 67 77 77 77 60 60 81 82 83 80 81 81 80 81 81 81 81 81 81 81 81 81 81 81 81 81	21	11 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 7 6 8 19 22 19 23 16 20	33 43 44 44 44 44 44 44 44 44 44 44 44 4	3 3 4 4 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 +1.0 +1.3 +1.3 +1.3 +1.3 +1.3 +1.3 +1.3 +1.3	1.77 1.62 1.62 1.62 1.62 1.62 1.62 1.62 1.62	881 881 881 881 881 881 881 881	7 6 8 9 9 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	0 10 10 13 13 13 14 10 13 14 11 11 13 13 13 14 16 16 18 13 17 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 14 12 2 11 11 12 12 11 11 11 11 11 11 11 1	Ne.   W.   Ne.   Ne.	Frank B. McCoy H. H. Russell. Ecther R. Ovcus, Gresar's Head P. Min. Co L. M. F. Man. Co J. Grory V. Chaub. Spartanburg Water Works. J. C. Gornwell Frod Comwell L. Weather Bureau. Broad River Power Co.

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, b, c), appearing in the table indicate number of days missing, for example, b represents two days missing, etc.

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Daily Precipitation for January, 1929

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Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24-hours ending at the intermediate of the period, midnight to midnight. \* Precipitation included in the next following measurement. Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

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Reference letters (s, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

Moreover the interpretation of the preceding day, on which it almost always occurs, the interpretation of the preceding day, on which it almost always occurs.

WBO, Raleigh, 2-26-29-900

# U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

No. 2

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

Vol., XXXII. COLUMBIA, S. C., FEBRUARY, 1929.

GENERAL SUMMARY.

The month was considerably colder than usual, opening 1-16 inch thick in both storms. with nearly a week of subnormal temperatures and closing with several days of early summer heat. Precipitation broke all

previous February high averages.

velopment, but growth was rather slow, due to much cloudiness. Early asparagus shipments began toward March 1. Strawberries were in bloom in the coast counties by the 12th, and tobacco beds were being prepared. Spring plowing was delayed by frequent rains and was suspended at the close of the month incident to heavy to excessive precipitation generally. Although hardy shrubbery showed considerable greening, the relatively low temperatures kept tree fruits back, and only a few peach blooms were noted as the month closed.

#### PRESSURE.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was 30.10 inches. The highest pressure was 30.53 inches at Due West on the 23d; the lowest pressure was 29.56 inches at Asheville, N. C., on the 28th, and in the Section proper, 29.60 inches at Greenville on the same date.

### TEMPERATURE.

The monthly mean for the Section, determined from reports of 40 stations, was 45.3°, or 2.1° below the normal. The highest temperature was 82° at Garnett and Yemassee on the 26th. The warm periods were from the 8th to 10th, 18th to 20th, and 25th to 28th, inclusive, when the daily mean temperatures ranged 5° to 16° above normal. The lowest temperature was 12° at Hogback Mountain on the 1st. The cold periods were from the 1st to 6th, 11th to 14th, and 21st to 24th. inclusive, when the daily mean temperatures ranged 5° to 14° below normal.

### HUMIDITY.

The mean relative lumidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Sec-tion, was as follows: 8 a.m., 84%; noon, 68%; 8 p. m., 72%. The highest percentages occurred along the coast, and the owest, in the northern interior.

# PRECIPITATION.

The average for the Section, 52 stations reporting, was 7.85 inches, or 3.44 inches above the normal, and the highest February average of record. Precipitation occurred in five periods, with fair distribution as to area and amounts. The ightest rainfall was along the coast, where the amounts were close to normal; in the interior, the total monthly measurements ranged from 5 to over 11 inches. The greatest local nonthly amount was 11.42 inches at Calhoun Falls, and the east local monthly amount was 4.07 inches at Conway. The greatest amount during any 24 hours was 3.50 inches at Blairs on the 27-28th. Average rainy days, 38% above normal.

Measurable snowfall, ranging from 0.1 to 6.0 inches, occurred quite generally in the higher elevations on the 3d, 4th, and 5th, and scattered snow flurrics occurred on the 13th, 15th, and 21st. Sleet was reported at many stations up-State on the former dates, and in scattered sections on the 13th and 21st.

Glaze storms (rain freezing on exposed objects) occurred at Due West on the 5-6th and 21st: the accumulated ice was

#### WIND.

The prevailing wind was from the northeast. The average Winter cereals and truck showed practically normal de- hourly velocity, determined from 9 anemometer records, was 6.8 miles. The highest velocity for any 5-minute period was 30 miles per hour from the west at Greenville on the 26th and from the northwest at Savannah, Ga., on the same date.

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 135.8 hours, or 44% of the possible amount. The average number of clear days was 10; partly eloudy, 5, and eloudy, 13, as against normals of 12, 6, and 10 days, respectively.

#### RIVER CONDITIONS.

Fair stages were reported in all streams until the last two days, when heavy to excessive rains were followed by high floods in most of the tributaries of the Pee Dee, Santee and Savannah River Systems. Approximate damage and value of moyable property saved by warnings will appear in the March

#### MISCELLANEOUS PHENOMENA (dates).

Halos—Lunar: Columbia, 18; Due West, 18; Greenville, 18, 19; Laurens, 18; Santuek, 28; Walhalla, 18. Solar: Columbia, 2, 7, 12, 28; Due West, 7, 12, 18, 22, 28; Greenville,

Fog, dense.—Beaufort (near), 6, 14; Calhoun Falls, 7, 14, 17; Catawba, 18; Chappells, 7; Charleston, 14; Cheraw, 14, 22; Columbia, 7, 9, 18, 22; Due West, 6, 7, 9, 10, 14, 17, 18, 22; Greenville, 7, 9, 10, 14, 16, 28; Landrum, 16; Marion, 8; Mars Bluff, 22; Pelzer, 22; Santuck, 7; Trenton, 18, 22.

# ERRATA.

January, 1929.—Saluda, monthly mean temperature, page 2, should be 46.8. Santuck, total precipitation, pages 2 and 3, should be 4.03.

# MISCELLANEOUS DATA FOR FEBRUARY, 1929.

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Section means a	nd extremes			45	.3 -2	1 8	32	20				1							1	1	
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. † Also on other dates, if Received too late to be included in means and summaries. \*\* Temperature data are from observed readings of the dry lattle; means are computed from observed readings. If Itod-collice addresses of these stations are as follows: of Caston Stories, Blacksburg: of Winthrop Callege, Rock Hill; of Ferguson, Entawville; pulled from observed readings. If Itod-collice addresses of these stations are as follows: of Caston Stories, Blacksburg: of Winthrop Callege, Rock Hill; of Ferguson, Entawville; of Castor's Head, Greenville; of Beaulort (near), Burton. The Precipitation is less than 0.01 inch of min or melted snow.

Daily Precipitation for February, 1929.

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Except us otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ||| Precipitation necessaried in the morning; amount then recorded is for the preceding 24 hours. \*\* Regular Weather Bureau station; precipitation is for the 4-hour period, midnight to midnight. \* Precipitation included in the next following measurement. || Separate dates of falls not recorded. || T. Trace, or less than 0.01 fuch.

COMPARATIVE DATA FOR FEBRUARY.

	Te	mperati	re.	Precip	itation.	Averag	e num days.	ber of	fling direc-		Te	mperatu	re.	Precipi	itation.	Averag	e num days.	ber of	ling iirec: n
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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, a represents two days missing, etc.

Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 3-22-29-900

NSC.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION

RICHARD H. SULLIVAN. Meteorologist.

Columbia, S. C., March, 1929. Vol., XXXII. No. 3

#### GENERAL SUMMARY

and badly distributed, with comparatively light amounts along train, with total damage of about \$2,000. the coast.

Though the rainfall was heavy to excessive up-State, with favorable for development of winter cereals, winter truck, and pastures; but spring plowing was materially retarded in the no frost killing, and full bloom was general up-State at the of his home. close of the month. Asparagus of fine quality was harvested during the month, and strawberry picking and tobacco transplanting preparations were being made.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 40 stations, was 57.6°, or 2.8° above the normal. The highest temperature was 93° at Garnett and Orangeburg on the west at Columbia on the 23d. 25th. The warm periods were from the 1st to 7th, 12th to 16th, and 20th to 31st, inclusive, when the daily mean temperatures ranged 5° to 25° above normal. The lowest temperature was 20° at Cherokee (near) and Landrum on the 11th. The cold periods were from the 8th to 11th, inclusive, and on the 17th and 18th, when daily mean temperatures ranged from 5° to 14° below normal. Late spring freezing temperatures were tion as late as the 18th.

#### PRECIPITATION.

The average for the Section, 52 stations reporting, was 7.59 inches, or 3.61 inches above normal, and close to the high March average of 1891. There were four fairly well defined periods of precipitation, with bad distribution as to area and Along the lower coast, the monthly amounts were close to 2 inches, while back from the coast the measurements ranged from 4 to over 12 inches. The greatest local monthly amount was 12.57 inches at Caesar's Head, and the least local monthly amount was 2.05 inches at Charleston. The greatest amount during any 24 hours was 5.16 inches at Calhoun Falls on the 4-5th. The average number of rainy days was 38% above normal. There was no snowfall. Sleet occurred at There was no snowfall. Sleet occurred at Walhalla on the 8th.

Tornadoes and Wind Squalls .- A disastrons tornado struck Six Mile, Pickens County, at 8:30 p.m., March 13. causing the death of 9 persons and injury to 10, with an approximate property damage of \$30,000. The storm first touched the ground about one mile southwest of town, lifted, and then descended on the southern part of the village in a path about 350 feet wide and about 700 feet long; it finally disappeared in the northeast, scattering debris about a mile northeast of Six Mile.

During the evening of March 22, a tornado appeared in the extreme northeastern part of York County, S. C., about 2 miles west of the Catawba River, and continued to the vicinity of Charlotte, N. C., a distance of about 50 miles; it was of the bounding type, with a path in York County 100 to 150 feet wide and 2 miles long; 2 persons were injured in York County, with property damage estimated at about \$10,000.

A small tornado descended on Chester, S. C., about 11:30 Temperatures averaged considerably above normal, with a.m., on March 23; no persons were injured, and the property early summer heat during the last 10 days, when March maxidanage was about \$4,000; the path was about 100 yards wide mum temperature records were broken at several stations of and the storm was last observed near Richburg, about 15 miles the western portion. Precipitation was much above normal to the eastward, where a freight car was blown out of a moving

A straight wind squall damaged property at Catawba, S. C., to the extent of about \$2,000 on the morning of March considerable lowland overflows, the season was generally 23, and another wind squall on the same date at Greenwood caused a property loss of about \$2,000.

Killed by Lightning .- Jesse Dixon, colored, near Hartswestern half of the Section. Tree fruits were vigorous, with ville, afternoon of March 25, when lightningstruck the chimney

#### WIND.

The prevailing wind was from the south. The average hourly velocity, determined from 9 anemometer records, was 9.0 miles. The highest velocity for any 5-minute period was 48 miles per hour from the west at Savannah, Ga., on the 5th, and in the Section proper, 42 miles per hour from the south-

#### RIVER CONDITIONS.

Three series of freshets and floods occurred in the upper tributaries of the Santee, Pee Dee, and Savannah River Systems, with unusually high average stages for the month. Pee Dee River below Cheraw, and the lower Congaree, lower quite general up to the 11th and in sections of the western por- Wateree, and Santee Rivers were in flood during the entire The property damage in the Santee Basin approximonth. mated \$248,350, and the value of movable property saved by warnings was estimated at \$63,312. In the Savannah Basin the losses were about \$125,000, and the value of movable property saved by warnings approximated \$100,000. In the Pee Dee Basin, for February, the value of movable property saved approximated \$100,000, and the property loss was about \$10,000; in March, the loses approximated \$6.500, and the value of movable property saved by warnings has been estimated at \$105,000.

## MISCELLANEOUS DATA FOR MARCH, 1929.

	, sea		peratu ees F		tio	pita- n, hes.	Win 3-cup A		re	lear lati midi	re	e of pos-
Stations.	Barometer, s level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage o
				1	1	1	1		1	1		
Asheville, N. C	30.04	50.4	87	20	5.85	1.82	9.9	se.	78	52	61	58
Augusta, Ga	30.04	6).0	93	84	6. 72	3.37	6.0	nw.	77	51	57	78
Charleston, S. C	30.06	61.3	88	38	2.05	0.57	11.6	SW.	77	60	71	62
Charlotte, N. C	30 04	55.8	90	26	7.09	2.46	6.2	SW.	74	54	61	64
Columbia, S. C	30.06	58. 9	91	31	5. 27	1.89	7.6	s.	86	60	62	66
Due West, S. C	30.07	56.2	88	29	10.94	4. 52	9.3	SW.	80	54		54
Greenville, S. C	30. G4	55. 1	88	27	9,03	3.03	8.7	ne.	77	57	60	60
Savannah, Ga	30.06	63. 2	92	38	2.74	1.48	12.8	S.	81	60	69	64
Wilmington, N. C.	30.08	58.9	87	28	2.06	0.95	8.7	S.	80	66	76	64
Means and ex- !								S.				
tremes	30,05	57 9	98	20	5.75	4.52	9.0	317.	79	57	65	63

					atolo	gical	Dat	a for	Ma	rch, 1	929.									
			record,	Т	empera	ture, i	n degr	ees Fa	hr.		Precip	itation,	in incl	nes.	Num	ber c	of da	ys.	direction md.	
Stations.	Counties.	Elevation, feet.	Length of recipients.	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.01 in. or more)	Clear.	Partly cloudy.	Clouds.	Prevailing dire	Observers.
Eastern Portion.				1		1	1													
Beaufort (near)‡‡ Blackville Charleston Circiaw	Beaufort	21 296 48 144	48 45 58 47	61.6 61.3 57.0	+3.9 +4.0 +3.2	92 88 88	25 24 †25	32 35 23	10 10 10	38 26 47	2.07 3.73 2.05 7.63	-1.25 +0.42 -0.97 +4.09	1.08 1.00 0.57 1.82	0 0 0 0	5 6 10 15	19 15 9	8 12 13	4 4 9	e. sw.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews. U. S. Wenther Bureau. Roland D. Powe.
Conway	Horry Durlington Florence Orangeburg	25 175 106 63	39 34 38 43	60. 8 58. 8	+4.2 +3.1 +3.7	90 90 89	24 24 24	29 26 	11 11 1	42 39 	3.31 5.46 6.44 6.11	-0.25 $+2.50$ $+2.66$ $+2.87$	0.57 1.39 1.67 2.37	0 0 0	16 12 13 12	20 19 	0 2 	10	sw.	Paul Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	orence 1         Florence         136         47           orence 2         do         136         14           truett         Ilampton         82         1           torgetown         18         36           ugstree         willnusbing         51         47           arion         Marion         68         4							29 32 29	11 a	37  50 41	5. 14 5. 52 5. 90  5. 32	+1.82 +2.20 +2.17 +1.93	1.06 1.10 2.20	0 0 0	14 14 8	14 14 23 	9 10 4 	8 7 4 	sw. sw.	II. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Vacant. Mrs. Ellen Scott.
Marion Mars Bluff Orangeburg Pinopolis	Orangeburg	60. 0 61. 8 60. 6	+4.2 +3.8	90 93 85	24 25 24	25 32 35	11  11 † 8	 38	3.49 6.01 4.00 4.42	+0.42 +0.84	1.05 1.30 1.24 1.65	0 0 0 0	6 15 12 6	19 14 16	7  6 8	5 11 7	se. sw. se.	Alden F. Schell. Rosa R. Itavis. U.S. Fisheries Station. Miss E. P. Ravenel.		
Rimini Society Hill Summerville Wedgelield Yennssee	Sumter	97 192 75 249 24	39	567.3 61.2 56.3 62.2	+4.0 +2.8 +0.7 +4.1	589 92 84 91	24 25 24 24 24	b23 30 30 30 32	†10 11 10 10	543 34 33 49	4.52 7.46 3.69 4.15 5.16	+1.14 $+4.14$ $+0.39$ $+0.71$ $+1.72$	1.16 1.45 1.22 0.85 1.25	0 0 0 0	8	16 13 17 14	6 6 9 7	9 12 5 10	s s. w. se.	Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta. W. Hampton Ramsey W. C. Hutson.
Division menns and	extremes		/	60. 1	+3.5	93	25	23	†10	50	4.83	+1.33	2.37	0	1.1	17	2	7	sw.	
Western Portion.																				
Ailen Anderson Bhris Cesars Head‡‡ Calhom Falls. Canden	Aiken Anderson Fuirfield Greenville Abbeville Kershaw	527 764 298 3118 508 223	36 3 24 5 5 5 70	60, 2 56, 6 49, 6 57, 2 56, 4	+4.6 +2.5 	92 91 85 92 91	24 †24  24 25 25	31 28 26 29 26	6 10 6 3 11	38 43  30 38 39	5.96 9.70 8.94 12.57 11.67 7.37	+2.01 +4.18 +5.24 +6.81 +3.68	1. 37 2.09 3 40 4. 72 5. 16 1. 90	000000000000000000000000000000000000000	11 11 9 10	17 18  7 10	2 1 11 9	12 12 13 12	ne. W.	Frank B. McCoy. H. H. Russell. Esther B. Owens. Cassar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba Chappells. Cherokee (near) Chester†† Clemson College Columbia	York Newberry Spartanburg Chester	. 48° . 85°	2 24 8 1 7 7 0 37	53.2 56.2 58.9	+3.5 +3.7	84 89 91	†24 †24 24	20 23 31	11 11 11 10	48 48 29	9. 30 10. 53 7.86 8. 92 5. 27	+5. 19 +6. 69  +4. 36 +1. 86	. 1.64		12 10	18 18 10	5 2 15	8 11 6	w. w. s.	<ul> <li>Immes C. Faris.</li> <li>George V. Claup.</li> <li>Spartanburg Water Works.</li> <li>J. C. Cornwell.</li> <li>Prof. F. H. H. Calbonn.</li> <li>U. S. Weather Bureau.</li> </ul>
Crescent. Due West Edgeffeld Guston Shoals [1] Greenwille. Greenwood	. Abbeville Edgefield Cherokee	. 71 . 68 . 103	1 15 15 0 26 9 45	56, 2 55, 1 57, 7	+1.0 +5.2 +4.8	88 88 86	25 25 †25	29  27 28	10	33 30 32	9. 76 10. 94 9. 10 7. 85 9. 08 10. 75	+6.54 +4.31 +3.03 +3.88 +6.63	3.03		) 18 0 7 0 18 0 14	9	1			. Broad River Power Co. U. S. W. B. Aerological Sta. Agent C. and W. C. Ry. Southern Public Utilities. U. S. Weather Burean. M. M. Calhonn.
Henth Springs Hogback Mountain Kershaw Landrinu Laurens	. Greenville Kershaw Spartanburg	. 302 . 50 . 106	5 8 0 13 3 14	54.8 56.4 54.6 *56.5	+1.0 +1.4 +3.0 +4.2	86 90 89 °91	†24 25 †24 †24	27 25 20 25 25	†10 11 11 11	38 43 43 45	7. 87 11. 00 8. 92 10. 05	+4.27 +7.64 +3.44 +6.18	8. 02 2. 91	1		12	1 10 11	18 7 4	nw.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Hamel. R. Hartwell Wilds, D.D.S. L. G. Roff.
Little Mountain. Newberry Pelzer Snindn Santuck	Newberry Newberry Anderson	. 85	2 25 0 25 6 27	55. 6 57. 6 57. 4 55, 2	+0.1 +2.5 +1.7 +2.0	91 92 89 90	24 25  22 25	26 27 25 21	10 11 11 11	39 46 38 45	12.47 9.82 9.56 9.88 9.88	+8.81 +6.01 +4.81 +5.67 +5.45	2.80 2.40 3.95		0 18 0 14 0 12 0 11	19 12 15	14	5	s. W.	Miss Alberta Sease, John H. Baxter. · Joshim Y. Jones, W. S. Crout, E. W. Jeter.
Spartanburg Trenton Walladla Winnsboro Winthrop College	Spartanburg Edgefield Oconee	. 106 . 54	0 36 1 29 5 35	54. 0 58. 8 52. 6 56. 4 55. 9	+2.6 +2.6 +1.1 +2.6 +2.3	88 91 90 90 90	26 25 24 25 †24		110 110 110	40 36 41	10. 48 8. 78	+3.79 +5.10 +4.86 +6.54 +5.38	3 2.05 1 3.54 3 2.00		0 11 0 10 0 18 0 1	3 14 1 18 1 12	12 8 10 14	9	e. ne. s. sw.	M. H. Daniel. Mrs. S. E. Long. 11. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
Division means and Section means and	1	XI.		56.0		92 93	†25 25			1	9.45	+4.09			0 15			M.		

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (5, 9, 9), appearing in the table indicate number of days missing; for example, by represents two days missing, etc. † Also on other dates. If Received too late to be included in means and summaries. "Temperature data are from observed readings of the dry bulb; means are computed from observed readings. If Post-office addresses of these stations are as follows: Of Gaston Shools, Blacksburg; of Windirup College, Rock Hill; of Ferguson, Entawville; of Cassan's Head, Greenville; of Beaufort (near), Burton. The recipitation is less than 0.01 inch of rain or melted snow.

# ERRATA.

January, 1929.—Due West, mean sea-level barometer, Miseellaneous Table, page 1, should be 30,16.
February, 1929.—Blackville, mean minimum temperature, page 5, should be 39,9. Due West, mean sea-level barometer, Miseellaneous Table, page 5, should be 26,13; greatest precipitation in 24 hours, pages 5 and 6, should be 2.89; maximum temperature, 28th, page 5, should be 66.

Daily Precipitation for March, 1929.

	Draimge.	_			Drainings-basins.  1 2 8 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 29 21 22 23 24 25 26 27 28 29 30 3														١.														
Stations.		1	2	3	1	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	30	81	Total.
Eastern Portion. mfort(near)	Const				. 25	.30		١		1	т.	T.	. 05	1.03								. 41				4		T.	т.				2.07
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raw III	Tee Den	. 28			21	1.82	. 10			. 14	. 15			T.	1 . 28	. 52	. 62				. 18		1, 24	. 28	.68				T.		. 62	. 42	7. 63
	Waccamuw			3	06	. 38	. 04			. 08	. 10		. 03		. 41									. 03	. 57				. 12		. 02		8.31
Higton ##	Pee Dee					1.39				, 14				. 12	.30	. 61	.47				. 28		.73	. 06	.74						. 42	. 20	5.46
guson III	Lynches Santee	. 16			10	. 66				0.1					. 62														.27			. 92	6.41
rence 1	Fee Dee	. 40			. 17	1.06	.06			. 14																						. 22	5. 14
					22	1. 10	. 03				- 11			. 12	. 73	. 55	. 65				.16		. 25		. 78						. 23	. 25	5, 52
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ion	Pee Dee				.88	. 66				Ť				. 15	. 40		1.05			.05				.70	1. 40							. 73	3, 49
's Bluff	Edisto	. 35			. 20	1.30	. 05			.04	. 08	· m·		. 05	. 60	. 47	.72				. 18		.44		.90						.13	. 50	6.01
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uni 🎼	Cooper Suntee Pee Dee Ashley Wateree	• • • •			. 20	. 22				1. 65			111	. 35		1.00	:615		. ,		14.5	٠		1,.00	0410	13.10							4.42
oty Hill III	Pee Dee	.30			. 12	1.40	. 10			. 16	. 15		. 18	. 18	.15	. 65	1. 16		·		.22	191	56		., 85				.,;55		:531	1 15	4.52 7.46
merville	Ashley	. 63			.31	. 38	.01					T.	. 06		. 55	. 17	1.22				. 40				. 85	::::			.08		.27	1.49	3.69
mssee	Wateree Ashepoo				. 88								.02	. 10	.55	. 85	1 95	• • • •	T.	• • • • •			. 70	- 50					20	4,1.	. 40 .		4. 15 5. 16
Western Parlion.																												_		• • •			5. 10
erson	Edisto Savannah	• • • •			1.37	1.07								. 12	. 71	. 83				. 13	.06		. 91	.76	:.								5 96 9, 70
rs										. 12					.50	1.35	. 20			.02			1.60	.10		• • • •	****		.07		. 54		8, 94
ar's Head toon Falls III	Saluda	• • • • •			1. 34	5, 16								4.72	1.19	. 70						. 44		1.32				.08			1.48		12.57
iden #1	Savumah Wateree	.40			. 20	1.90				. 15			. 02	. 05	. 15	. 35	. 55			. 10	. 25		1. 15		1.20						.72		7.37
(wbn	Catawba	. 05			12	3 20				10			1	90	10	00	0.3						10	00									0.00
pperis       cokee (near)	Saluda				40	9 65								.23	. 043	2.20	.07				. 04		1. 85	. 19	. 55			• • • •	. 17	٠٠٠	95	14	10, 53
ster	Bronddo																																7.86
3													. 05	.05	. 70	.80							1 65	GS.			• • • •					.04	8 00
	Conguree				1.67	.31				. 12		T.	.03	. 03	. 43	. 61				.47	.04	.28	.22	. 53				T.			. 53	T	5.27
cent	Enoree				. 33	3, 56	. 04						.78	. 18	1. 94								00	22	61				06		.91	- 1	0.76
elield #3	Savanuah		T.		3.60	. 98				.09			. 06	.31	1.27	. 83				.03		. 44	.79	. 56			T	.09 .	.00	T.	.89 .		10.94
on Shoats III	Broad			. 20	. 49	2, 22								35	19 1	1.51 .	03			• • • •	. 85		95	1.31	70						.61	0.4	9. 10 7. 85
nville ***	Enoree Savanuah Savanuah Broad Saluda do				2.17	. 92				. 04			. 13	1.08	. 68	.70				.15		.84	.77	. 78				.02	. 10	.03	.72		9. 03
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th Springs back Mountain	Wateree				1. 95	1.40				.18				. 18	. 14	. 60 .		i		.09	.14 .	1	. 14	. 58							. 35	. 12	7.87
din w	Broad	:::			.33	3 17	• • • •		• • • •	20					10 1		90				19						[	· · · ·					
trimi						1,71							2	2. 91	. 25	. 61 .	. 02 .					.31	. 52	. 96					. Orti	1	.62		11.00 8.92
	Saluda				2.79	1.34	•••		• • • •	. 10			T.	. 36	. 49 1	. 10 .				.05		. 48 1	. 53	.75					.10.		. 96 -		10.05
e Mountain	Saluda				1.65	2.80				. 15				- 26	.39 1	. 41				. 15	. 30 .	1	. 81 1	. 15	!:				.	2 9	90	10	12.47
berry er III	Snludndo	•••	ip"		2. 18	1. 43	• • • •			. 15				. 18	. 55 1	. 42 .			- 8	0.4		20	on!	04				T.	.03.	1	. 52	. 03	9.82
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ton	Edisto	• • •			4.25	T.				.08				. 22	.78	.90				. 12		. i	.38	. 78	. 40 ,			T	. (10)		.62	.20	9.33
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hrop Callege					2.00									.34	. 23 1 . 26 1	. 10 .						1	. 25	.70	.70						. 21		8.78
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Except us otherwise indicated, observations are generally made late in the afternoon, near smuse, and precipitation recorded is for the 24 hours wedseg set the time of servation. |||| Precipitation measured in the morning; amount their recorded is for the preceding 24 hours. \*\* Regular Weather Burean station; precipitation is for the hear period, midnight to midnight. \* Precipitation included in the next following measurement. Separate dates of fulls not recorded. Three, or less than 0.01 inch.

\*\*COMPARATIVE DATA FOR MARCH.\*\*

\*\*COMPARATIVE DATA FOR MARCH.\*\*

	Te	mperatu	re.	Precip	itation.	Averng	e num days.	her of	iling direc-		Te	mperati	ire.	Precip	itation.	Averag	e nnin days.	her of	ing irec-
Vear.	52.1 80		Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di	Year.	Mean.	Highest.	Lowest.	Average.	Average lays with 0.01 inch or more:	Clear,	Partly cloudy.	Cloudy.	Prevail wind di tion
	52. 1	80	23 19 20 21 18 15 24 19 21 21 22 22 22 20 23 28 18 27	1. 85 6. 71 3. 41 2. 96 7. 88 3. 78 2. 22 2. 08 1. 21 2. 12 4. 54 2. 99 4. 36 4. 08 2. 15 5. 34 1. 57 4. 80	97 711155 127 99 88 100 99 66 610 58	13 15 12 14 7 11 12 12 14 14 14 15 13 15 15	9 11 8 8 10 9 9 10 8 8 7 7 9 9 6 6 10	9 5 11 7 15 15 11 9 11 9 10 10 10 10 10 10 10 10 10 10 10 10 10	SW. W. SW. He. HW. SW. SW. SW. SW. SW. SW. SW. SW. SW. S	1910. 1911. 1912. 1913. 1918. 1916. 1916. 1917. 1918. 1919. 1920. 1922. 1922. 1923. 1924. 1925. 1927. 1928.	54. 9 53. 2 50. 2 46. 3 53. 7 55. 0 56. 5 56. 5 56. 2 51. 0 56. 8	93 90 88 88 88 91 81 87 88 82 4 87 4 91 89 88 88 89 88 88 89 90 88 89 89 89 99	222 222 155 222 122 222 155 144 297 277 164 247 177 199 6 6 6 16 199 200	1. 38 2. 30 6. 79 7. 40 2. 59 2. 66 2. 14 5. 39 1. 83 2. 86 6. 78 3. 2. 25 4. 4. 49 3. 79 3. 87 7. 59 3. 98	11	21 17 14 13 14 15 19 14 16 17 17 17 18 15 17 20 17 20 17	6 8 5 5 9 8 8 6 8 8 7 6 7 7 7 6 6 6 6 7 6 7 7 8	4 6 12 13 8 8 8 4 11 7 7 7 8 8 9 10 8 5 7 7 12 10 9 9	W.   W.   W.   W.   W.   W.   W.   W.

							I	Dail	уТ	em	pera	atui	res	for	Ma	rch,	18	929.														
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		!	-	1	1	+	<del>'-</del> -	1	<del> </del>	<del>'</del>	T	T	T	Τ	Ī	T	Ì	Ť	Ī					1		1	1	1				
Eastern Portion.																1																
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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

Minstruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 4-24-29-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

Vot., XXXII. COLUMBIA, S. C., APRIL, 1929.

GENERAL SUMMARY. Both temperature and precipitation averaged considerably above normal, with an extended period of abnormal heat during the first half of the month, and also a superabundance of rainfall in the higher clevations and deficiencies along the coast.

The growing season opened with vegetation somewhat in this work was materially retarded by intermittently copious to heavy rainfall up-State. At the close of the month, cotton and early corn planting was practically completed on the coastal plain, with about one-half planted in the Picdmont sections. Wheat, oats, rye, field truck, gardens, and pastures became vigorous, and rye and oats began heading unusually early. Tobacco transplanting was finished about the end of the month, and sweet potato transplanting proceeded. A fine quality of asparagus was harvested, and white potatoes showed improvement. Tree fruits were developing normally. Native strawberries and all kinds of vegetables were being marketed as the month closed.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 42 stations, was 63.7°, or 1.4° above the normal. The highest temperature was 92° at Florence No. 1 on the 6th and at Garnett on the 10th. The warm periods were from the 1st to 14th, inclusive, and about the 21st and 25th, when the daily mean temperatures ranged from 5° to 21° above normal. The lowest temperature was 33° at Hogback Mountain on the 17th, and at Walhalla on the 18th. The ecol periods were from the 15th to 18th and about the 23d and 27th, with daily mean temperatures ranging from 5° to 10° below normal.

#### HUMIDITY.

The mean relative humidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was as follows: 8 a.m., 77%: noon, 54%; 8 p.m., 61%. The highest percentages occurred along the coast, and the owest, in the north central interior.

#### PRECIPITATION.

The average for the Section, 54 stations reporting, was 4.30 inches, or 1.20 inches above normal. Precipitation occurred in five periods, but was very unevenly distributed, there being less than 2 inches along the immediate coast, less than 4 inches on much of the coastal plain, and 6 to over 7 inches in sections of the Piedmont. The greatest local monthly amount was 7.47 inches at Chapells; least local monthly amount, 1.88 inches at Charleston. The greatest amount during any 24 hours was 2.20 inches at Chester on the 10th. The average number of rainy days was 14% above normal. There was no snow.

of rainy days was 14% above normal. There was no snow.

Tornadoes.—About 4 p.m., April 25, a tornado of the bounding type appeared about 9 miles northwest of Anderson and was last seen near Enorce, about 30 miles to the eastward;

the path was 400 to 900 yards wide; 6 persons were killed and 35 to 40 painfully injured; the damage has been estimated at about \$102,000. Another tornado appeared about 4 miles west of Lugoff and was last seen about 9 miles northwest of Camden; one person was killed, and 12 were injured; the property damage approximated \$5,000.

Thunderstorms, Hail, Wind Squalls, Etc. - About 11 p. m., April 19, the new parsonage of the Prospect Baptist Church, Inman, S. C., was fired by lightning and burned, with loss approximating \$3,000. At Columbia, about 4 a.m., April 22, a strong wind squall from a thunderstorm damaged plate glass and merchandise to the extent of about \$3.200; the accompa-The growing season opened with vegetation somewhat in advance of normal. While spring plowing and planting proceeded under favorable conditions on most of the coastal plain, this work was materially retarded by intermittently conjust to the extent of about \$20,000.

During a thunderstorm at Ware Shoals, afternoon, 25th, a few rather flat hailstones were about the size of a dollar; no great damage. Light hail occurred at many points in the central and northern counties on the 10-11th, 21-22d, and 25-26th.

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was 7.8 miles. The highest velocity for any 5-minute period was 36 miles per hour from the northwest at Savannah, Ga., on the 15th, and in the Section proper, 34 miles per hour from the northwest at Due West on the 22d.

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 268.7 hours, or 69% of the possible amount. The average number of clear days was 16; partly cloudy, 8, and cloudy, 6, as against normals of 15, 8, and 7 days, respectively.

#### RIVER CONDITIONS.

Freshet conditions prevailed in the Saluda River at Chappells on the 17th and at both Pelzer and Chappells about the elose of the month. The Santee River at Rimini and Ferguson was in flood during practically the entire month. The Pee Dee River rose rapidly at Cheraw on the 17th, and the river at Mars Bluff was in flood from the 1st to 6th and 19th to 21st, inclusive.

#### MISCELLANEOUS DATA FOR APRIL, 1929.

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Stations.	Barometer,	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage c
Asheville, N. C Angusta, Ga Charleston, S. C Clarlotte, N. C Columbia, S. C Greenville, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex J	29, 97 29, 99 30, 01 29, 98 30, 00 30, 02 29, 98 30, 02 30, 06	57.0 67.3 68.1 63.6 65.7 63.0 63.2 69.2 65.4	84 90 85 90 89 86 86 88 88	35 44 46 42 42 40 41 45 42	2. 76 3. 19 1. 88 3. 35 4. 20 5. 44 5. 73 1. 95 1. 64	0.69 1.09 0.18 1.45 1.02 2.97 1.44 0.82 0.93	7. 9 4. 8 9. 6 5. 2 6. 7 8. 5 8. 5 11. 3 7. 6	se. nw. sw. sw. sw. sw. sw. sw.	77 76 75 72 85 79 74 80 76	47 49 61 49 55 53 51 60 58	52 56 74 52 57 52 71 76	65 81 69 75 69 66 69 59 66
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#### explosion Date for April 1929.

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		record.		Te	mperat	ure, in	degr	ees Fa	hr.		Precip	itation,	in incl	ies.	Num	ber	of da	ys.	direction	
Stations.			years.	.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipition (0.01 in. or more)	Clear.	Partly clouds.	Clouds.	Prevailing dire	Observers.
Eastern Portion.		1	1				1													
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Rimini, Society Hill Summerville Wedgefield Yemassae	Sumter	97 192 75 249 24	15 38 81 39 40	°62.0 67.0 62.3 66.8	+0.3 +3.2 -0.3 -2.7	91 91 80 87	6 6 9 6	°87 89 42 41	†18 18 †17 †17	°41 36 33 40	4. 67 4. 97 3. 73 3. 48 3. 24	+0.39	1. 62 1. 86 0. 90 1. 18	()	8 8 8	18 20 20	5 0	10	S W	W. C. Hutson.
Division means and				65.8	+2.3	92	† 6	85	18	46	8.42	+0.38	3 2.12		8 0	17	1	1	sv	v.
Western Portion,																	, ,	2 1:	2 81	v. Frank B. McCoy.
Aiken Auderson Blairs Cresars liend 11 Calhoun Fails Canden	Fairfield	527 764 293 3118 508 222	67 36 24 5 80 79	66. 6 63. 9 56. 1 64. 1 62. 6	+3.3 +2.3 +0.1	89 89 83 89 90	6 6 † 7 † 7	89 40 84 40 89	17	87 89 42	4. 45 4. 05 4. 06 4. 80 4. 28 4. 28	+0.6	6   1.31 1.54 1   1.77			8 1:	5 1	3 1	9 W	H. H. Kussell. Esther B. Owens. Grear's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba	Vork Newberry Spartanburg Chester Oconee	562 402 758 487 850 351	28 24 1 7 37 48	59. 4 62. 8 65. 7	+2.9 +2.4	85 89 89	† 6	35 87 42	18		6.4	7 +4.5 3 5 +2.5	8 1.98 1.40 2.20 8 1.80		0 1 0 0 0 1	6 2	9	6	3   7   1° 5   v	James C. Faris. George V. Claup. Spartanburg Water Works e. J. C. Cornwell. Prof. F. H. H. Calhonn. W. U. S. Weather Bureau.
Columbia  Crescent. Due West. Edgefield Gaston Shoals II. Greenville.	Spartanburg Abbeville Edgefield	680 711 680 1039	3 15 15 26 45	63.0	+2.1	86 86 86	6  6 †8	41	i	8 29	3.5 4.1 5.7	4   +3.5 9   -0.6 5   +0.5 3   +2.6	07   1.98 52   1.1 01   1.4		0 1	1   I 5   0   8   1		8 1	ii s	Broad River Power Co. U. S. W. B. Aerological Sta Agent C. and W. C. Ry. Southern Public Utilities. U. S. Weather Bureau. V. M. M. Calhoun.
Heath Springs Hogback Mountain Kershaw Landrum	Laucaster	568 3025 500 1068 589		62.2	+1.6 0.6 +1.1 +2.2 +3.8	. 84 84 90 89	† 8 7 6 † 5 † 6	39 31 36 36	3 1 3 1 5 1		4.5 6.3 4.8 6.0	6 +1.3 3 +1.3 4 +1.3 1 +1.3	1 8	3	0	6 2 9 1 7 1	8 7 6 1	3 4 7	7 13 6 8	y. J. Marvin Bowers. Blue Ridge Forests Co. John W. Hamet. R. Hartwell Wilds, D.D.S. L. G. Roff.
Laurens Little Mountain Newberry Pelzer Saludn Santuck	Newberry Newberry Anderson Saluda	711 502 850	36 25 25 27	68.1 64.0	+1.3 +1.4 +0.6 +0.9	88 88	† 6		5 1 8 †1 4 †1	18 4	5. 9 4. 0 6 4. 5	3 +2. 0. +2. +2. +1.	75 1.8 00 0.9 58 1.2 25 1.5	6 0 7	0 0	9	10	4 16 10	8 1	w. Miss Alberta Sense. John II. Baxter. Joshua Y. Jones. W. S. Crout. E. W. Jeter.
Spartauburg Treuton Walhalla Winnsboro Winthrop College #1	Spartanburg Edgefield Oconee	. 620 1061 5 15	29 35	65.0 60.7 63.9	+1.9	88 88 88 89	1 1	8 7 8 8	0 1	18 3	4 3. 5. 5. 9 4. 9 2. 9	8 -0, 55 +0, 15 +1, -0,	85 0.7 72 1.7 21 0.9 85 1.2	6 5 9 7		8 11 11 4	14	0 12 11 15 18	5 3	M. H. Daniel.  Mrs. S. E. Liong.  II. W. Brandt.  sw. Rev. Offver Johnson  W. T. Clawson.
	d extremes	1		62.5		1		6 3							0		16	8		sw.
	1	1				1	J	1		1			_ \		1	1	!	_ \	- !	1

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are ascellanged to the such station of district temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are ascellanged to the such stations are constituted as a summaries. The such stations are constituted as a summaries of the stations are as follows of classified as a summaries. The such stations are as follows of classified as a summaries. The such stations are as follows of classified as a summaries. The summaries of these stations are as follows of classified as a summaries. The summaries of the stations are as follows of classified as a summaries. The summaries of the stations are as follows of classified as a summaries. The summaries of the stations are as follows of classified as a summaries.

# ERRATA.

March, 1929.—Summerville, maximum temperature date, page 10, should be 24th; Spartanburg, maximum temperature date, page 10, should be 25th; Due West. maximum temperature, page 12, should be 38.

Daily Precipitation for April, 1929.

	Drainage.		Pay of month.																														
Stations.	busins.	1	2	3	4	5	6	7	8	9	10	11	12	18	11	1ō	16	17	18	19	20	21	22	23	24	25	26	27	28	29		a)	200
Eastern Portion, eaufort (near) ackyrlle 9 h hirleston *** hirraw h	Const	1. 07 -28 T	.38								T.	 .32 .21 T.	.20	, 31	. 13	T82 .01 .11 .06	. 40 . 06 . 48 . 30	Ť.			. 15	.01 T	50 T T			. 10	1.31		.6				3, 68 4, 07 1, 58 3, 02 3, 02
arlington      lingianu erguson lorence      lorence 2	Lynches Santee Pee Dee	Т.	T. .30 .15									T Lii	. 62 . 97 2 . 12 . 55 . 42			. 14 .23 .42 .03 .60	.08 .29 .31 .40	.25 T. .17 .02					. 18 . 14 . 18 . 07 T.	.02			.8F	7.1%		. 11			3, 27 2, 91 4, 57 3, 43 3, 15
arnett. eorgetown ingstree	Savannah Const	. 42	.43								T.		 .98 .24 .83 .09			.03		.20					.45 .18 .03 .20			. 90 . 47 T.	. 35 . 98 . 50 1. 15		.50  .75 T	.35		***	3, 53 3, 50 2, 72 2, 86 2, 54
inopolis imini #1 oriety Hill      itamerville      edgelield emissee    	Cooper Sautee Pec Dec Ashley Wateree Ashepoo												1 45		. 10 	13.5	100					.05					1	.67		1. 45 .21	.76		4. 22 4. 67 4. 97 3. 72 3. 48 3. 24
iken iderson mirs      esar's Head ilhom Falls      inden	Edisto Sayannah Broad Saluda Sayannah Wateree	.08									T.	.30	. 84			1.38 .26	1. 31					.10	. 19			1.54	.13		1.40	1,63			4. 45 4. 09 4. 00 4. 80 4. 28 4. 28
ilauba      inppetis     ierokee (near) tester leiason College olumbia ***	Catawba Saluda Broad do Sayammh Congaree	T.	.05		.02					т.	0.2		.25			. 40 1. 10 1. 40 1. 20 1. 80 . 44	. 87 1. 98  . 25 . 31					.04 .36 .15	7.6			. 10 . 50 . 77 1. 66 . 95	0.0		 1.10 1.55 .45	1. 18 1. 60	.12		3.25 7.47 4.43 5.86 6.46 4.20
rescent.  we West*** dgeticid [4] uston Shonts [4] recuyille *** recuyood [4]	Euoree	 T.			Ť.						.01 T.	. 54			.75	1.34	.05 1.98 .45					. 13	. 45			.40			1. 25 1. 54 .01 1. 44 .83		.3k .76	• • • • •	4.98 5.44 3.59 4.15 5.73 5.91
enth Springs ogback Mountain ershaw III undrum unrens	Wateree Broad Lynches Broad Saluda	.48	. 03							. 05	1.26	. 11	.35		.34	1, 81 , 49 1, 41 , 75	. 36				::::	.05	.12			.96	. 12		1. 16	1.58			4.56 6.33 4.84 6.03 5.03
lttle Mountain ewberry dzer III drinda tutnek	Saluda Saluda do do Broad	. 20 . 04 . 40 . 03			T						.06	. 70	.96		.18	.82 .50 1.48	. 23 .70 . 88 . 13					.14	.36 .10 .81 .20		::::	.50 .92 .23	.08		1.65 1.60 .28 1.20 1.57	.94			5.80 5.93 4.02 5.58 4.57
eartauburg      centon alballa iuusboro      iuuhrop College	do	. 20	.11									. 18			T.	.27	. 13				.01	T. T. , 12	T.			.76 1.25 .16	. 23		. 42 1.62 .06	. 77	T.		4. 24 3. 18 5. 55 4. 15 2. 94

Except us otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of observation. If the complete in the control of t

COMPARATIVE DATA FOR APRIL.

	Te	mperatu	re.	Precip	itation.	Averag	ge num days.	ber of	ling lirec-		Te	emperati	ire.	Precip	itation	Averag	e num days.	ber of	ling hirec-
Vear.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevaili wind din	Year.	Mean.	Highest.	Lowest.	Average.	Average nays with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind o
\$47 448 449 459 450 501 502 503 503 503 503 503 503 503 503	62.4 62.8 63.2 62.8 66.7 62.6 61.4 66.9 62.2 58.0 60.0 60.4 50.4 50.4 50.4 50.4 60.4 50.4 60.4	94 95 93 94 95 95 95 95 95 95 91 90 91 88 89 92 92 89 95 96	28 31 30 31 26 29 30 28 30 28 31 27 24 24 24 25 20 30 31 31 31 31 31 31 31 31 31 31 31 31 31	2. 09 1. 33 2. 01 2. 02 1. 66 1. 13 1. 30 2. 01 5. 55 1. 31 3. 24 5. 05 3. 02 5. 41 5. 03 2. 18 2. 95 1. 34 3. 44 4. 45 4. 40 4. 75 5. 2, 95	5 4 4 6 6 6	15 15 12 14 16 16 16 12 12 15 15 14 14 15 20 10 11	100 100 99 111 66 77 99 96 69 99 88 88 61 130 100 9	55 5 9 9 5 8 7 7 9 9 9 6 7 7 4 4 7 7 9 7	SW. he. SW. SW. SW. SW. SW. SW. SW. SW. SW. SW	1910 1911 1912 1918 1918 1916 1916 1916 1918 1918 1920 1922 1922 1923 1925 1925 1927 1927 1928 1929 1929 1929 1929 1929 1929	63. 4 61. 6 64. 3 61. 2 63. 7 63. 1 61. 6 64. 9 61. 4 61. 4 61. 4 63. 3 64. 5 61. 5 61. 5 65. 9 60. 3 63. 2 59. 9 63. 7	95 91 91 91 90 98 96 92 92 92 94 91 95 99 99 99	32 30 32 30 25 25 24 28 22 24 26 27 33 18 24 25 26 27 33 18 24 25 26 27 33 18 28 28 30 30 30 30 30 30 30 30 30 30 30 30 30	1.71 2.95 4.24 2.00 2.86 1.47 1.79 3.34 5.13 2.48 5.11 3.48 5.90 2.12 2.43 1.58 6.40 4.30	1068990 1066698	15: 14: 14: 14: 14: 14: 15: 16: 15: 16: 15: 15: 16: 15: 15: 16: 15: 16: 15: 16: 15: 16: 15: 16: 16: 15: 16: 16: 15: 16: 16: 15: 16: 16: 16: 16: 16: 16: 16: 16: 16: 16	10954068005687756668558	59 111 66 44 44 7007 11 66 99 88 10 66 88 10 67 7	SW. THE. SW. W. TY. SY. SW. SW. SW. SW. SW. SW. SW. SW. SW. SW

							Dε	ily	Te	mpe	rat	ures	s for	A	pril,	18	929.													_		
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Eastern Portion.				1						0.5	00			-			75	7.4	-5	01	88	76		72	80	84	82	77	75	72		78.8
Beaufort(near)   Maximum   Minimum   Maximum   Maximum	85 64 84	75 55	74 49	85 56	87 60 82	83 62 90	88 64 91	84 63 90	79 65 89	85 62 82	60 87	75 50 79	78 60 75 49 71 58 74	71 60 71 59	70	70 46 71	75 51 69	74 51 76	75 56 77 46 68 56 74 39 75 42 74	57 84	66	50	52	60	65 71	52 76		59	75 54 83 E0	55	:::	78.8 57.2 79.0 55.6
Blackville ( Minimum	64	49	48 70	56 75	82 58 79 64 82 57 86 59	90 61 82	61	90 62 82	60 84	61 76	87 61 81	59 78	49 71	59 78	59 74	48 70 50	40 67	43 70 50 69	46 68	53 78	64 76	59 55 55 70	18	48 72	61 76	61 79	51 71	60 77	E0 82	57 75		55.6 75.6
Charleston Minimum	66	59 68	48 70 58 78	64 79	64 82	64 91	€5 90	66 86 61	67 86	68 77	63 62 61	78 61 75	58 74	64 73	62 62	50 66	46 67	50 69	74	80	67 78	70	10	74	74	70	73	67	77	75		75.6 60.6 74.8 51.8
Cheraws Minimum  Maximum  Maximum  Minimum  Minimum	64 79 66 78 54 87 62	47 71	41 75	52 78	57 86	91	65 90 62 90 60	90	58 88	65 80	72	52 72	44 77 48 76	52 79	52 70	47 67	40 67 46 67 42 63 44	37 72	75	80	52 77	58 84 56	0	74	72	77	77	74	77	19		77.5 53.6 76.9
Darlingtou W Minimum  Maximum  Minimum	62 84 52	70 59 68 47 71 51 72 49	44 78 39	73 56 75 64 79 52 78 53 79 54	59 87 66	61 90 63	60 90 62	62 89 61	79 65 89 60 84 67 86 58 62 88 60	61 76 68 77 65 80 87 77 65	72 59 65 61	52 72 58 76 55	48 76 44	78 64 78 52 79 54 77 51	74 62 62 52 70 60 67 58	66 47 67 46 63 46	63 46	37 72 37 70 36	74 89	43 80 43 82 43	76 67 78 62 77 59 78	81	1 39	78 48 72 56 74 40 74 42 76 40	65 71 61 76 64 74 56 72 60 74 57	52 76 61 79 64 70 58 77 65 75 62	51 74 51 77 57 73 46 77 49 77 48	77 60 77 63 67 56 74 56 69 57	82 64 77 56 77 59 79 58	50		52.6
Ferguson M   Maximum	86	71		82 51		87 62	89 58	89 57 89	89 58 90 63 90 57	89 59	80 65	76 66 73 55 81 56	76 49 74	72 57 76 50 79 50	70 55	67 48	65 45	71 39 69 37 78 40	73 44 74 44	80 46 82 45	60	84 61 83	71 16 74 10 75	77 45 79 45	74 59 76 52	75 63 70 64 70 60	75 52 78 50 75 49	77 53 70 59 87 59	81 58 80 56 83 60	81 56	:::.	78.4 54.2 77.8 53.5
Florence 1   Maximum	66 87 57 88 60	79 48	43 77 48 79	86 55	85 52 91 59 89 56	92 62	58 91 62 90 60	62	63	59 76 65 92	64 62 88	55	45	50	55 74 59 76	48 61 47 68 48	62 42 68	37	44 80	45 86	76 61 82 62	62 90	10	45 81	52	64	50 75	59 87	56	-83	:::	53. 5 *81. 8
Garnett Maximum	60	76 52	46	80 50	56	90 58	60	90 60	57	62	58	56	78 45	50	59	48	43	40	48	86 50	62	68	18	48		60	49	59	60	56		*81.8 *53.9
Georgetown   Maximum	86	70			85	90	50	90	88	83	76	74	74	76	71	68	65	72	76	81	78 61	83		 75 45	75	75 65	76 52	74	81	67	::::	77.6 55.1
Kingstree   Maximum	62	52	44	58	60	61	59 59	64	88 62	66	60	59	74 48	76 56	59	48	44	39	48						60			59	59	55 80		
Marion   Maximum	85 58 86 62 80 49 777 64 69 56 85	69 49 70	78 40	80 51	88 60	91 62	91 62 90	81 62 90	78 63 88 62	78 65	73 58 85	72 56	79 44	79 54 75 58 75 47 77 55 66	68 59	61 41 69	63 43	71 35 72 42 71 37 75 39 57 42 77	74 38 76 45 73 77 43 68 45 76 46	84 42	60	85 55 83	71 38 31	77 41 77 46	72 57 74 60	78 65 73 63 75 61 77 62 68 63 75 63	76 62 74 52 76 50 76 50 70 51	72 56 75 59 69 79 61 69 62 86 58	79 58	50		77. 2 52. 8 78. 9 51. 9
Orangeburg   Maximum Minimum	62	51 70	80	75 56 79	84 58 88 52 81 58 76 60 85 54	91 61 91	59	62	62 90	84 65 80 61 77 65 79 65 80 61	61	74 58	75 47	58	59 68 60 64 54 72 61 61 58 71 60	48	68 43 62 42 68 42 60 42 68 41	42	45	84 49 82	62	59 79 59	46	46 78	60	63	52 76	59 69	58 81 61 79 57, 82	56		51.9 575.8
Society Hill M   Maximum   Minimum	80	49	46 77 40 47 43 70 45 45 46 46	41	52	60	61 89			61		74 53 80	77 47 75	47	54 72	47	42 68	37 75	37 77	41 84	62 78 41 79 61 77 62 81	59 86	46 71 38 72 46 64	78 39 76	74 41 75 60 68 60 71	61	50 76	49 79	57 82	51 81		°48.3 79.0
Summerville M   Maximum	64	49 74 51 62	43	79 53 69 55 78 52	58	91 59 77	61 78 63 89	90 62 79 63 88 62	98 61 80 60 87 58	65 79	86 57 72 59 85	80 56 65 55 79 56	49	55 66	61	47 70 50 60 47 69	42 60	39 57	43 68	84 49 75 50	61	631	46 64	46	60 68	62 68	50 70	61 69	62 70 59 83	57 70		69. 7
Wedgelield   Maximum   Maximum     Maximum	56	52	45	55	60 85	61	63 89	63 88	60 87	65 80	59 85	55 79	49 66 47 77 46	58 75 57	58 71	47 69	42 68	42 77	45 76	50 82 51	62 81	76 59 86	43 79	69 47 77 47	71	63 75	75	62 86	59 83	- 81		54. 9 79. 5
Yennassee Minimum	68	49	9 46	52	54	89 59	60	62	58	61	56	56	46	57	60	49	41	41	46	51	60	65	46	47	56	63	49	58	61	55		54.2
Western Portion.	0.00			74	86	89	87	86	87	81	84	76	75	72	70	69	66	72	78	81	84	81	79	75	74 63	71	72	76	80	78		77. 8 55. 3
Aiken   Maximum   Minimum	62	7: 4' 7:	3 77 7 49 3 74	74 57 70	59	58	61	59 87 60	61 85	62 82	84 58 75	57 78	75 52 71	59 68 55	70 58 60	69 47 63	66 39 67	42	73 50 74	53 80	65 79 60	59 76	48 67	49 74 46 64	63 77	58 70 55 55 52 70 57 79 55 70	72 51 71 46	76 60 65 57 63 42 75 45 81 50 69	60 77 57	13		75. 1
Anderson   Maximum   Minimum   Maximum	69 81 57 74 58 59 77 44 78	6	4 47 5 67 5 36 4 75 6 47 0 76 1 39	70 55 67 47 78 49 79 42 69 46	57 79	89 61 83 55	88 60 81	60 68	60 75 60	60 79 53 83 59	58 60 54 78 61 77 57 74 51	51 69	48 64	55 60 45	50 52 48	46 45 66 50 68	40 56 34 67 40 67 39 60 42	73 43 64 85	45 64 86 76 43 75 42 69 86	52 69	60 42	76 55 67 44 79 58	46 60	64	77 59 62 47 76	55 55	63	63	69	68		52.7 65.8 46.4 77.3 50.9 77.4 47.9
Caesar's Head Minimum	. 55 78	6 3 7	5 36 4 75	47 78	54 88	55 88	59 89 61 90	68 60 89	60 86	53 83	54 78	69 48 78 54 72 47 68	44 74	68	62	66	67	74	76	86 44 82	83 54	79	88 69	39 78 44 80	76 45	70 57	74	75	69 50 80 56 80 51 69	52 75 50		77. 8
Calhoun Falls M Maximum Minimum Maximum Maximum	55	6	6 47	49 79	54 86	88 58 89	61 90	90	86 58 89	87 60	77	72	74	73	62 59 63	68	67	70	75 49	82	81	69 56	73 45	80	83 50	79 55	79	81	80 51	45	)	77. 4
Camden   Maximum   Maximum   Minimum   Maximum   Minimum   Minimum	: 44	4 7 7	1 39 4 68 6 37	42 69	51 81 52	54 85 57	55 85 50	61 90 56 82 53	55 82 55	74 63	74	68 49	44 74 43 74 42 68 40	41 73 44 68 51	43 60 51	52 48	60	74 41 70 39 66 35	69	44 75 42	58 73 60	69 56 73 58	48 73 45 69 38	45 70 39	45 83 50 69 38	70 49	41 74 45 79 45 68 41	69	69 50	7:	5	71.8
Cherokee (near) Minimum	. 51	3 4	6 37	46	52	57		0.0				45	40																			
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Chemson Conege / Minimum	. 5	5 4	2 41 0 76		59	89	50 89	56	53 86 62	60 80	52 75	48 75	40 74	52 68	53 62	50 69	48 61	71	78 40 74 48 72	81	77 55 82 63 79	76 55 79	42 69 47	76	74 61	72	74	69	79	78	8	76.
Columbia   Maximum   Minimum   Maximum   Maximum	5.5	8 5	0 75	47 76 58 69 51	61	61 1 86	65 86	85	62 82	64 81	78 52 75 57 76 55 66	48 75 54 74 52 75	74 50 72	60 65 56	51 59 49	48 64 46	44 64 40	71	72	79	79	76 52	66	73	75 59	69 52	71	66	77	7: 5:	5	55.3 73.9 52.9
Due West	7	2 7 5 4 9 7 8 5 7 8 7 8 7 8 4	1 50 0 75 7 45 0 79 17 5	51 68	8	86	61 85 61	61 84 61	82 55 83 61	61 80	66 51	52 75 50	49 69 53	67 56	56	62 49	64	71 42 71 40 70 41	44 72 17	79 58 81 55 79 52 77 56	61 75 58	54 76 53 74 54	44 66 46	76 43 76 49 78 45 70 51	72 52 74 61 75 59 78 58	70 54 72 57 69 52 67 55	71 42 74 50 71 48 70 52	66 58 68 51	79 56 79 58 77 57 57 57 56	5		72.6 58.9
Greenville   Minimun   Maximum											82			73 50	66			65	70	75 49	80			- 1								78 4
Maximum	6	3 5 7	74 60 75 60 77 60	57	6: 6: 8:	78 64 3	b.	1 84	86 59 84 60 73 56 85 85	61 75 62 83	82 60 62	53		50 	58 62	59 47 61 42 52 41 66 45 58 47	40	40 66 -	44		56 49	80 55 69 57 67 51 74 57 75	77 43 65 40 65 54 71 39 68 41	70 42 71 43	75 47 72 48 65 50 76 58 71	75 57 72 58 63 46 72 60 69 53	70 45 73 47 62 43 77 47 47 44	66 51			5	52, 71 50, 5
Henth Springs } Minimum	7 4 7 5 7 5 7	5 4	7 6		55 55 55 56 57 58 57 58	5 59 5 78	60 84 60	63 80	73	62 83 60	55 75 48	47 64 43 74	47 68	60	45 57	52	42 55	39 60	42 55 39 74 40 74 42	65 50	70 55	67	65	60	65	63	62	60	56 66 50 66 50 78 55 55 55 50 50	7	4	66. 47. 75. 52. 74. 50.
Maximum.	5	6 8	35 4°	7 44	8	5 78 5 58 6 90 7 60	89	87	86	81	62	74	43 74	73	46 63 50	66	83 68 41	34 70 86	74	65 50 81 45 79	80	74 57	71	44 76 41	76 58	72 60	77	61	78 8 55	5	9	75.1 52.
-rshaw Minimum Maximum Maximum Minimum	7	7 3	35 4 39 7 15 4 74 6 39 4	5 78 5 51 8 86 5 58	8 6	9 89 0 66	8:	80 64 87 63 63 7 82 5	85 85	64 80 62	61 70 52	51 74 50	48 78 44	40 73 55 72 52	59 53	58 47	61 44	68	74 42	79 42	70 55 80 61 77 60	75 54	68 41	41 78 39	71 56	69 53	71 44	51 61 51	50 50	7	9	74.5 50.5
		11.				6 90	90	88						67	61			- 4	74	82		85	68	74 40	76	78	79	61		7	9	76.
Laureus   Maximum   Minimum   Maximum	5	7 6	72 7 45 4 69 7	7 76	5.8	5 64	89	68	86 59 86 58 56 86	84 62 80 57 82	79	75	49 67	67	51 61 54	67 48 67 44 67	38 64 39	71	40 74 45	46 79	82 58	85 47 79 54 79 57 80 56	42 68 89 69 42 72 41	77 44	76 60 76 58 76 60 74 61 78	78 55 78 55 78 55 78 55 72 58 55 72 58 57 58 57 58 57 58 57 58 57 58 57 58 57 58 57 58 57 58 57 58 57 58 57 58 57 58 57 58 57 58 58 58 58 58 58 58 58 58 58 58 58 58	79 43 78 44 76 44 69 43 78	51 5. 6 5	5 78	7	0	52. 75. 50. 75.
Liith Monntain Maximum Minimum Maximum Maximum Maximum Maximum Minimum	5	6	13 4 72 7	52 7 74	8	5 64 5 87 6 57 5 88 8 60	88	86	58 86	82 61	81	76	58	71	68 49	67	66 40	71	74	79 51 81 50	80	79 57	69	76	76	72	76	6 5	7 80 9 53	7	7	52.
	5	4	47 4 72 7	4 70	8	8 85	88	82	56 82 51	80	83 50	72	72	69	63 58	44 65 48	64	70	74	78 48	80 61	80 56	72 41	76 42 75 40 75 87	61	78 58	69	6 5	5 78 5 55 7 80 9 53 8 77 8 58 6 73 7 54	4	7	74.
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Maximum.	:: 5	77	40 4 68 7 45 4	5 73	8	4 8	8	88	8.	81	72	79	72	69 55 73 54	59 57 61	45 66 46	8 41	40	79	81 52	60	79 56	68	75 43	5 7 5	6 75 5 59	4	1 0	6 79 6 54 9 74 6 5	3	72 · · · · 54 · · ·	*75. 52.
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Reference letters (\*, b, c), appearing in the table Indicate number of days missing: for example, b represents two days missing, etc.

M Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 5-23-29 -900

# U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

Vol., XXXII.

COLUMBIA, S. C., MAY, 1929.

No. 5

#### GENERAL SUMMARY

The month was high in the group of wet Mays. Temperatures averaged considerably below normal, and the monthly miximum temperature equaled previous lowest May maximum temperature records. Another notable feature was an approximate damage of \$900,000 to young cotton and corn during the general windstorm of the 2d.

The whipping winds on the second cut sprouting cotton and corn to the ground, and the necessary replanting resulted in very irregular stands by the close of the month, when cotton chopping was general. The intermittent rains prevented much needed cultivation in many sections. The oat harvest began in the low country about the second week, and winter ccreal harvests were general up-State as the month closed. Tobacco transplanting was finished during the first week, and sweet potato transplanting proceeded under favorable conditions. White potato digging became general during the second week. Field truck, gardens, and lesser crops showed general improvement. The prevailable truck gardens, and lesser crops showed general improvement. The prevailable truck gardens, and lesser crops showed general improvement. The prevailable truck gardens, and lesser crops showed general improvement. Second week. Field truck gardens, and lesser crops showed general improvement. The prevailable truck gardens are the replanting to the replanting

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Secion, was 30.11 inches. The highest pressure was 30.55 inches at One West on the 11th; the lowest pressure was 29.17 inches at Asheville, N. C., on the 2d, and in the Section proper, 29.30 nches at Columbia and Greenville on the same date.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 40 stations, was 69.1°, or 1.8° below the normal. The ighest temperature was 94° at Garnett on the 16th, equal to previous lowest May maximum temperature records. The earm periods were about the 1st and 7th, from the 13th to the 8th, and from the 26th to the 31st, inclusive, when the daily nean temperatures ranged from 5° to 8° above normal. The lowest temperature was 32° at Caesar's Head on the 3d. The cool periods were generally on the 3d and 4th, from the 9th to 1th, and from the 20th to the 24th, inclusive, when the daily man temperatures ranged from 5° to 12° below normal.

#### HUMIDITY.

The mean relative humidity, determined from reports of 9 egular Weather Bureau stations in and surrounding the Secou, was as follows: 8 a.m., 81%; noon, 60%; 8 p. m., 70%. the highest percentages occurred in the low country, and the lowest, in the north-central interior.

#### PRECIPITATION.

The average for the Section, 51 stations reporting, was 46 inches, or 2.81 inches above normal. Rainfall occurred a four fairly well defined periods, but was badly distributed as

to area and amounts. On the extreme southern coast, the total monthly amount was less than 2 inches, while to the northward the amounts ranged generally upward from 4 to nearly 14 inches, and in sections of the lower Piedmont and the upper coastal plain, the measurements ranged from 10 to nearly 14 inches. The greatest local monthly amount was 13.61 inches at Rimini; least local monthly amount, 1.13 inches at Beaufort (near). The greatest amount during any 24 hours was 4.02 inches at Rimini on the 19-20th. The number of rainy days was 22% above normal.

Light hail fell at Blackville, Charleston, Conway, and Little Mountain on the 1st, at Columbia and Kingstree on the 2d, at Landrum on the 15th, and at Walhalla on the 30th.

Damage by Wind.—On May 18, a barn was blown down near Van Wyck during a wind squall, with damage approximating \$500. During the general windstorm on the 2d, whipping winds seriously damaged sprouting cotton and corn, and the replanting cost has been estimated at about \$500,000 for cotton and about \$400,000 for corn.

#### WIND.

The prevailing wind was from the south. The average hourly velocity, determined from 9 anemometer records, was 7.2 miles. The highest velocity for any 5-minute period was 42 miles per hour from the west at Greenville and at Savannah, Ga., on the 2d.

# SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 279.7 hours, or 65% of the possible amount. The average number of clear days was 14; partly elondy, 8, and eloudy, 9, as against normals of 16, 9, and 6 days, respectively.

#### RIVER CONDITIONS.

Moderate freshets occurred in the upper tributaries of the Santee and Savannah Rivers during the opening week, and the Santee River and the Pee Dee River below Cheraw, were close to or above flood stages throughout the month.

## MISCELLANEOUS PHENOMENA (dates).

Frost, killing.—Caesar's Head, 3.

Halos—Lunar: Due West, 16; Greenville, 18. Solar: Columbia, 4, 5, 23, 24; Due West, 4, 5, 8, 9, 16, 19; Greenville, 8; Santuck, 4.

Fog, dense. - Due West, 1, 6; Mars Bluff, 31; Trenton, 14.

### MISCELLANEOUS DATA FOR MAY, 1929.

Asheville, N. C 30, 10 62 83 88 5, 16 1, 24 7, 7 8e, 85 59 70 52 Augusta, (3a,, 30, 09 72 9) 48 6, 55 1, 96 4, 7 8. 78 49 65 77 Charleston, S. C 30, 12 72 89 60 4, 30 1, 70 9, 6 8. 76 68 76 Charlette, N. C 30, 10 69 89 43 5, 90 1, 47 4, 0 8w, 78 55 64 63 Chundhia, S. C 30, 12 71 88 47 5, 49 1, 83 6, 4 pp. 85 82 76 68 78		Stations.	r, sea	Tem	perat ees F	nre, ahr.	tic	ipita- on, phes.	Win 3-eup 2		re	Mean elati midi	9.7	of pos-
Augusta. (fa.     30.09     72     91     48     6.55     1.56     4.7     8.     78     49     68     71       Charleston, S. C.     30.12     72     89     50     4.80     1.70     8.     76     8.     76     86     76     79       Charlotte, N. C.     30.10     69     49     43     5.90     1.47     4.0     8w     78     5.94       Columbia, S. C.     30.12     71     88     47     5.49     1.83     6.4     9e     88     76     1.91     1.83     6.4     9e     88     76     9e     76     67     76     67		Stations.	Barometer level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	vera our locit	Prevailing direction.	rei.	Noon.	à	Percentage sible suns
Dne West, S. C.     30, 14     68     85     42     4,99     0,99     7,7     sw.     83     61      22       Greenville, S. C.     20, 10     67     87     23     3,66     1,66     7,5     s.     80     59     61      22       Greenville, S. C.     30, 12     73     89     50     3,65     1,78     10     1     se.     82     64     73     59       Wilmington, N. C.     30, 13     70     85     45     5,25     1,78     10     1     se.     82     64     73     59       Tremes.     30, 11     69     91     38     5,63     1,96     7     2     s.     81     60     70     65	An Ch Co Dn Gre Sa Wi	gnsta, (Ia	30. 09 30. 12 30. 10 30. 12 30. 14 30. 10 30, 12 30. 13	72 72 69 71 68 67 73 70	91 89 89 88 85 87 89 85	48 50 43 47 42 42 50 48	6, 55 4, 30 5, 90 5, 49 4, 99 3, 66 3, 65 5, 25	1.96 1.70 1.47 1.83 0.99 1.66 1.78 1.70	4.7 9.6 4.0 6.4 7.7 7.5 10.1 6.7	s. sw. ne. sw. s. se. sw. sw.	78 76 78 85 83 80 82 82	49 68 55 62 61 59 64 66	65 76 64 70 66 73 80	79 63 67 62 64 59 65

#### Climatological Data for May, 1929.

					Cli	imatol	logic	al Da	ita f	or M	ay, 1	929.								
			record.		Temper	ature, i	in deg	rees F	ahr.		Preei	pitation,	in incl	hes.	Num	ber (	of da	ys.	direction	
Stations.	Counties.	Elevation, feet.	Length of recovers.	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeiled.	With precipit on (0.0f in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direction	Observers.
Eastern Portion.															1		Y			1
Beaufort (near) \$\$ Black ville Charleston	Beaufort Barnwell Charleston Chesterfield	21 296 48 144	5 45 5 58	<sup>b</sup> 78. 0 72. 1 72. 0 68. 6	-0.7	689 92 89 88	† 6 †16 7 28	<sup>b</sup> 47 45 50 43	4 3 8 3	23	1. 13 5. 44 4. 30 6. 06	-2.15 +1.76 +1.80 +2.45	0.50 1.58 1.70 1.45	0 0 0 0	12	16 12 10	11 16 13	4 3 8 		Mrs. R. L. Fripp. Mrs. Mariella S. Matthews. U. S. Weather Burean. Roland D. Powe.
Conway	Horry	25 175 106	5 39 5 34 6 38	70.1 70.0 70.5	-0.5 -0.7	89 90	16 29 †16	46 46 44	4 4	36	6.76 10.67 6.88 5.95	+3.06 +7.01 +3.23 +1.85	2.11	0 0 0	12	17 18 	0 2	14 11	se.	. Henry C. Savage.
Florence 1	Florencedo	136 136 82 18	6 14 2 11 8 36	70.6	-1.4 +0.3		29 16	46 *43	3 4 †3	*36	6. 39 5. 41 3. 42 8. 36	+1.39 +1.30		0 0 0	11 9	19 18 21	7 7 5	5 6 5 		H. K. Gilbert. Pee Dee Experiment Sta. Manier B. Robert. Vacant. Mrs. Ellen Scott.
Marion	. Williamsburg Marion Florence Orangeburg	68 92 264	8 4 12 6 14 13	71.0	) 7 +1.7	. 91	27	47 46 47 44	† 3	3 41	7. 08 7. 14 6. 49 5. 16	+3.00	2.02 1.66 1.99	0	12 11 12	16	7	8	s. s.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel.
Pinopolis	Sumter	. 97 193 75 249	97 15 92 38 75 31 19 39	68. 4 71. 4	-2.1 -0.2	1 90 2 91	29 †16	46 47 45	1 8 1 8	3 37 3 30 3	13. 61 6. 71 5, 15 7. 73	+8.22 +3.13 +1.51 +4.40	4.02 3 1.60 1.13 1.55	0	12 10 10 11 11	22 14 21	5	11	NY.	Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta. W. Humpton Ramsey W. C. Hutson.
Yennssee	. Hampton	. 2-									1	4							-	
Western Portion,	'			1					1				1		1	1				
Aikeu Auderson Bluirs Clesars Head‡‡ Callionn Fulls	Fairfield	76 29 311 50	64   36 93   24 18   5 08   80	6 68.0 4 5 61.4 0 70.0	0 -1.8 4	8 86 79	81 80 15 15	32	2	3 36 3 33 3 35 3 35 3 35	6. 95 6. 4 6. 19 5 5. 9	5 +3.6 7 +3.3 9 +1.9	2 1.46 1.42 9 1.60	6 2	0 8 0 11 0 10 0 14 0 10 0 10	0 4 5 0 9	0 2 5 9 9 10	9 17	9 w.	Casar's Head-P. Mtn. Co L. M. Farker. Henry A. Brown.
Canaden  Catawbn Chappells. Cherokee (near) Chester Clemson College	York Newberry Spartanburg Chester	56 40 75 48 85	62 23 102 24 158 1 187 7 150 37	3 4 1 65 7 67.	6s -0.	85	5 31	1 38	;·	3 40 3 3	ö 8.2	5 +7.8	7 2.2	3	0 10 0 12 0 18 0 18	3 28		4	3 sw 9 w. 8 re	J. C. Cornwell. Prof. F. 11, H. Culhoun.
Crescent.  Due West  Edgefield  Gaston Showls 11	Spartanburg Abbeville Edgefield	68 71	530 3 711 15 680 26 039 45	3 15 68. 15 26 45 67.	.2 -1.5	.2 85	5 16	6 45	12	3 3	4.7 0 4.9 10.5	6 +1.1 55 +7.3 69 +0.9 66 -0.6	1, 4 14 0, 9 35 3, 0 98 1, 8 68 1, 6	8 19 12 18 18	0 15 0 15 0 15 0 15 0 15	2	6 i	i i	14 sw 12 s. 14 w.	Agent C. and W. C. Ry. Southern Public Utilities. U. S. Weather Bureau.
Greenville, Greenwood Heath Springs Hogback Mountain† Kershaw Landrum Landrum	Laucaster  Greenville  Kershaw  Spartenburg	6: 30: 50: 10:	568 2 025 3	45   68. 27   67. 8   61. 13   69. 14   67.	.6   -1. .3   -2. .6   +0. .4   +0.	.8 87 .4 85 77	5 †2° 7 †1- 11 2° 18 3	27 4 14 3 29 3	14 32 39	8 8 8 8 8 8	1	34 +4.0 08 +4.1 79 +4.1	09 3.0 1.2 25 1.6 38 2.0	00 20 30 05	0 0 1 0 1 0 1	8 12 10 8 10 10	8 19 9 14 17 1	5 1 7 0 2 12 10	18 e. 5 22 e. 5 w. 4 e.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Hannel. R. Hartwell Wilds, D.D.S. L. G. Roff.
Laurens Little Mountain Nowberry Pelzer Sulnda Santnek	Newberry Newberry Anderson Saluda	5 8	711 3 502 2 850 2 536 2	36 68. 25 69. 25 68. 27 68 36 67	3.4 -2. -1. 3.7 -2.	2.8 89 1.0 89 2.1 87	89 1 88 †1	15 4	41 44 43 41	3 8	34 5.8 37 7.4 5.32 7.3 36 6.0	58   +1. 74   +5. 05   +2.	91   2.7 37   1.5 08   1.7 75   1.7	78 56 79 71	0 1 0 1 0 1 0 1	15   i 15   · · 14   1	12 1 8 2 15 1	18 21 12	7 W W S S S S S S S S S S S S S S S S S	John H. Baxter. Joshua Y. Jones. W. S. Crout. E. W. Jeter.
Spartanburg Trenton Walladia Winnsboro Winthrop College #	Spartauburg Edgefield Oconce Fairtield	8 6 10	620 3 061 2	29 65 35 69 29 68	0. 0 -1. 5. 6 -1. 9. 4 -1. 8. 2 -1.	1.8 8' 1.2- 8' 1.2 9: 1.1 8	87 1 88 3 92 1 86 3	16 4 31 8 16 8	41 43 36 43 42	3 4 8	33 4.42 6.37 7.37 7.37 5.	50 +3. 25 +3. 05 +3. 41 +1.	26 2.1 11 1.9 70 1.1 20 1.1	70 94 50 35	0 1	10 1 15 1 13 10	12 7 7 2	11 9	10 9 10 9 81 9 81 4 8.	Rev. Oliver Johnson W. T. Clawson.
Division means an					8. 1 -2. 9. 11.	- 1			32			48 +3. 46 +2.	100	02			14	8	9 w	1 - 1
Section means at	extremes			65		8	4					1	1	1	1		1	1	1	Decomplete reports are used in

The departures from the normal temperature and precipitation are computed only for such stations as have two or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, b, 6), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. the second of the date of the included in means and summaries. The date and are from observed readings of the dry bulb; means are computed from observed readings. Illustrations are as follows: of Gaston Shooks, Backsburgs (of Winthron Collere, Rock Illustrations) are as follows: of Gaston Shooks, Backsburgs (of Winthron Collere, Rock Illustrations) are as follows: of Gaston Shooks, Backsburgs (of Winthron Collere, Rock Illustrations). The Precipitation is less than 0.01, inch of rain or melted snow.

### ERRATA.

April, 1929.—Columbia, prevailing wind direction, page 14, should be south. Text. page 14, date of tornado near Lugoff, 28th.

# Daily Precipitation for May, 1929.

Stations.	Drainage.										-				Day	ol n	ontl	n.				F		_				-				
Contions.	busins.	1	2	3	4	5	6 7	8	9	10	11	1 12	18	14	15	16	17	18	19	20	21	22	23	21	25	26	27	28	29	20	31	otai.
Eastern Portion. Beaufort (near).	Coast					i	T	T	1	1	1	1	1	1	1					-		1	1			20	1	40	20	00	01	Ä
Blackville III	Edisto	1.58	. 93	.20			1.0	5	1172	ò					15			. 35					. 28			. 50	Т.					1. 1:1
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Conway III	Waccamaw	.20	1.80	. 28		ř: ::	9	2 .0	5 . 5				1				.24	· Av	. 12	. 56	1.45						T.	::::	.43	. 95	1711	6.06
Darlington III	Pee Dee	21)	3. 27	. 08		1													. 18	1.30	, 90	T					.09			1.40	T.	6.76
Kilmgbum	Lynches	. 36	2.11	.20			9	0	1.0	6						. 18	.21			1.90	2.36						. 51			. 80	.70	10.67
Florence 1	Santee Pee Dee	. 55	. 66	.08			9	. 9					1			. 06	. 57	.26		. 68	1.08	• • • • •					. 19			1. 15	.14	6,88
Florence 2	do	.21	1. 12	iii.			5		1 17							. 48	. 84			1.09	1. 36						. 13			. 49	.09	5,95
Chrnett				0 1	- 4		- 1/													1. 10	1.00	4 .					.21.			.40		5.41
Kingstree III	Savannali Const Itlinck Pee Deedo. Edisto Cooper	. 20	. 15			:::::	0							T.			. 40		. 13	. 80	. 77					. 75				.15		3, 42
Marian	Poo Doo	1.00	1.20	. 33			98	. 10									1 53	.60	• • • • •	50	99	400										
Mars Bluff	do	.32	1.54	.55			30 .25		. 22								T.	. 25	1. 43	. 65	.28						. 04 .	.07 i	.70	. 67	.72	7, 68
Orangeburg	Edisto	1.99	1. 12	. 13 .			. S.		.08						. 02	. 38	. 37	18		.38	. 97 .	ir.				,	.081,		1	.66 .		7.14
Pinopolis	Cooper	. 56	. 42							0.0										. 50	. 50	* .				1.	. 69	т		.03.		6.49
Society Hill no	Smitee	. 10	. 60	. 20			1. 18	. 63									. 04	56	1	. 90 .						. 20 .			. 10	.20 .		5.16
	Pee Dee	15	PER	9.4				01	. 10							. 58	. 34 .		.70 .	. 11	. EO.					- 0			1	.32	. 12	13. 61 6. 71
Vedgelield																					.44 .						0.0			.75	.02	5.15
	Ashepoo	. 02	. 43	.25 .		)5	. T.	.28							. 18		. 42	.80 .	. 15 1	. 55	.84	::::	::::			. 85	. 25 .		Т.	. 20 .	10	7.73
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gester's Hend	Saluda	.30	.64 .			1. 4	9 00	. 18					0.00				. 06 .	* * *		. St. 1	. 15 .						. 14 .	22 .				6. 47
unden III	Savannah 1 Wateree																		. 10 1	36	86			• • •	:::	.20	.53 .	03 .	. 02	. 23 .		6. 19
atawha III			- 1	- 1	- 1	1			••••		••••		• • • •	• • • • •	• • • • •		. 03		1	.08 1	. 85 .							19		48	18	5. 97
Impoetls III	Catawba	.54 .	89	.06		٠	. 1. 45									.22	. 10 .			30 1	. 30 .			- 17			15			40		5.47
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aston Shouls III 1	Saynumah 1. Brond	46 2.	99	05			. 46		. 22						.20	. 02	11	71	Г.	50 · · ·	98			• • •		10	53	- 1	,	г.		4.99
reenville ***	saluda	59 .	07	25		2 1. 60	1.38		. 17					07	. 42	. 55	06 .			41 .	12					3.	.02	88		06	. 1	0.55
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Except us otherwise indicated, observations are generally made late in the afternoon, near smact, and precipitation recorded is for the 24 hours ending at the time of a subservation. Ill Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the section precipitation included in the next-following measurement. Isoparate dute of falls not recorded. It Trace, or less than 0.01 incl.

# COMPARATIVE DATA FOR MAY.

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	Te	emperati	ire.	Precip	itation.	Averas	days.	ber of	ling irec.		Te	emperati	ıre.	Precip	itation.	Averag	ge num	ber of	ling direc-
Venr.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevaili wind dir	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	artly loudy.	pno	reval wind
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	Daily Temperatures for May, 1929.																															
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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 6-24-29 -900

# U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief,

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol., XXXII. COLUMBIA, S. C., JUNE, 1929. No. 6

two marked cool periods during the first decade. Precipitation averaged somewhat above normal. There was one death by

Light hail occurred at Charleston on the 28th; Cherokee (near), 17th and 19th; Saluda, 19th; Santuck, 17th, and Trent quantities in others. Staple crops progressed favorably under more normal thermal conditions after the 11th. Much old corn was laid by toward the end of the month. Winter cereal harvests were completed, with threshing begun, by the 18th. Stubble lands were turned to late corn and forage, and good stands were developing as the month closed. Cotton good stands were developing as the month closed. Cotton much hay; loss estimated at \$3,000. At Gantt Station, near made fair progress, on the whole, with good stands, though the crop was in all stages of growth, due to much replanting; of territory, early in afternoon of the 18th. chopping was finished during the last decade; intermittent showers kept the plants tender, conditions favorable for increased weevil infestation, but poisoning was carried on more extensively than for several seasons. Tobacco curing began about the 11th, and the white potato harvest proceeded throughout the month. Sweet potates were planted under generally favorable conditions. The cucumber harvest ended early in the month, and native peaches, blackberries, melons, and all kinds of vegetables were marketed in season.

# PRESSURE.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was 29.99 inches. The highest pressure was 30.25 inches at Wilmington, N. C., on the 17th, and in the Section proper, 30.24 inches at Columbia and Due West on the same date; the lowest pressure was 29.64 inches at Charlotte, N. C., on the 3d, and in the Section proper, 29.68 inches at Charleston on the same date.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 40 stations, was 74.8°, or 2.7° below the normal. The highest temperature was 100° at Garnett on the 20th. The warm periods were comparatively negligible. The lowest temperature was 46° at Hogback Mountain, Little Mountain, and Santuck on the 4th. The cool periods were from the 3d to 5th, 9th to 11th, and 25th to 27th, inclusive, when the daily mean temperatures ranged from 5° to 13° above the normals

#### HUMIDITY.

The mean relative humidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was as follows: 8 a.m., 82%; noon, 59%; 8 p. m., 72%. The highest percentages occurred along the coast, and the lowest, in the north-central interior.

# PRECIPITATION.

The average for the Section, 51 stations reporting, was 5.73 inches, or 0.88 inch above the normal. Precipitation was spotted and very irregularly distributed as to area and amounts. Trames. ... 1 29 99 78 96 45 4.56 2.58 5.9 siv. 82 59 72 66

There were four well defined periods of rainfall. The measurements ranged from 5 to nearly 12 inches in sections of the coastal plain and the northern interior, while in other sections of the coastal plain and up-country the amounts ranged downward from 4 to less than 3 inches. The greatest local monthly amount was 11.68 inches at Cheraw, and the least local monthly amount was 2.46 inches at Walhalla. The greatest GENERAL SUMMARY.

The month was far down in the group of cool Junes, with tain on the 27th. The average number of rainy days was 10% above normal.

Light hail occurred at Charleston on the 28th; Cherokee

#### WIND

The prevailing wind was from the south. The average hourly velocity, determined from 9 anemometer records, was 5.9 miles. The highest velocity for any 5-minute period was 36 miles per hour from the northwest at Charleston on the 28th, and at Savannah, Ga., on the 2d.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 283.1 hours, or 66% of the possible amount. The average number of clear days was 13; partly cloudy, 8, and cloudy. 9, as against normals of 13, 10, and 7 days, respectively.

### RIVER CONDITIONS.

The Santee River at Rimini and below was close to or above flood stages throughout the month. The Pee Dee River at Mars Bluff was close to flood stage from the 13th to the 16th, Moderate freshet conditions prevailed in the lower inclusive. Saluda and lower Broad Rivers about the 27th.

# MISCELLANEOUS PHENOMENA (dates).

Halos-Lanar: Charleston, 20; Columbia, 14. Solar: Columbia, 6, 14, 16; Due West, 6, 12, 14, 15; Santuck, 20,

Fog, dense. - Mars Bluff, 22; Trenton, 6. TICCRITANEOUS DATA FOR JUNE, 1929.

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Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	S p. m.	Percentage of po-
sheville, N.C	29, 98 29, 99 30, 00 29, 98 29, 99 30, 02 29, 98 30, 00 30, 00	68 77 77 75 76 75 74 77 75	86 96 94 93 95 95 95 92 94	45 58 58 51 52 51 54 58 52	4. 27 5. 59 4. 81 5. 88 4. 24 5. 20 2. 97 4. 88 2. 87	1. 39 1. 62 2. 03 1. 85 1. 06 1. 50 1. 07 2. 58 0. 91	4. 7 3. 8 7. 9 3. 6 5. 5 6. 7 7. 1 8. 1 5. 6	se. s. s. sw. ne. se. sw.	89 80 78 78 85 82 78 83 82	55 54 67 56 59 60 57 63 59	69 77 64 70 67 80 80	63 76 63 68 67 60 76 56
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Climatological	Data	ior	June.	- 19	129.

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			record,		Tempe	rature.	, in de	grees	Fahr.		Prec	eipitatio:	n, in ir	ehes.	Nu	mber	of d	lays.	lon	
Stations.	Counties.	Elevation, feet.	Length of re	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall,	With precipition		Partly cloudy.	Cloudy.	Prevailing direction	Observers.
Eastern Portion.								1	1	1	Ì	1	T		1	1		1		
Beaufort (near)‡‡ Blackville Charleston Cheraw	Beaufort. Barnwell Charleston Chesterfield	21 296 48 144	48 45 58 47	77. 8 76. 6 76. 6 74. 0	-1.4 -2.8 -2.3 -3.4	96 98 94 95	18 20 29 14	58 52 58 48	4 4 4	28 31 25 37	6, 50 4, 14 4, 81 11, 68	-1.27 +0.22	0.97	0 0 0	10 11 11 14	15 11 6	10 16 13	5 3 11	s. s	Mrs. R. L. Fripp. Mrs. Mariella S. Matth U. S. Wenther Bureau. Roland D. Powe.
Conway Darlington Ethngham Ferguson‡‡	Orangeburg	25 175 106 63	39 34 38 43	75.8 75.2 75.2	-1.3 -1.9 -2.1	93 94 96	20 21 20	50 50 47	4 4	34 26 34	6.30 6.91 6.32 5.78	+1, 15 +1, 35 +0 39 +0, 18	1.98	0 0 0 0	13 13 11 13	18 13 	0 6 	12 11	SW.	Paul Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1 florence 2 Garnett Georgetown Kingstree.	Florencedo	136 136 82 18 54	47 14 11 36 47	76.2 76.7 76.2	-2.5 -1.7 -2.0	96 100 98	20 20 20	50 53 52	5	31	9. 23 6. 51 8. 19	-0.42	1.90	0	14	20	3  6 	8	sw.	H. K. Gilbert, Pee Dee Experiment St Manier B. Robert, Vacant.
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Rimini Society Hill Summerville Wedgefield Yemassee.	Smuter	97 192 75 249 24	15 38 31 39 40	73. 6 76. 2 76. 0	-4.7 -1.4 +1.3	95 97 190 96	21 20 21 21 21	47 53 52 53	5 5 4 5	35 32 	4. 93 10. 94 6. 26 5. 53 9. 46	+0.61 +5.62 +0.56 +0.76 +3.90	1. 30 1. 90 2. 86 1. 90 2. 74	0 0 -0 0	8 13 11 9 11	13 10 19 16	14 7 6 2	3 13 5 12	w. s. w. se.	Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta W. Hampton Ramsey W. C. Hutson.
Division menns and  Western Portion.	extremes			75. 2	-2.5	100	20	47	† 4	40	6. 76	+1.30	2.86	0	12	14	7	9	S	
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Cutawba Chuppells. 'Cherokee (near). Clester Clemson College Columbia	York	402 758 487 850	23 24 1 7 37 43	71.8 *75.1 76.2	-0.5 -1.9	90 *95 95	†20 21 20	49 *49 52	5 4	30 *84 25	5. 24 4. 68 5. 13 5. 68 4. 24	+0.86 +1.13 +0.85 +0.07	1. 10 1. 95 1. 35 1. 80 1. 06	0 0 0 0	10 12 10 	22 11 13	2 6 9	6 13 8	sw. se. se.	James C. Faris. George V. Clamp. Spartanburg Water Woy J. C. Coruwell. Prof. F. H. H. Calhonn, U. S. Weather Burean.
Crescent. Due West Edgefield Gaston Shoals 11. Greenville. Greenwood	Spartanburg Abbeville Edgefield Cherokee Greenwille Greenwood	680 711 680 1089 671	3 15 15 26 45 45	74.6  74.3 76.0	-2.4 +0.2 -1.6	95 92 98	21 20 22	51 54 48	4 3 4	26  25 41	6 07 5.20 8.69 3.74 2.97 5.49	+1.46 +0.83 -0.74 -1.58 +1.21	1. 37 1. 50 1. 00 0.91 1. 07 1. 72	0 0 0 0 0	12 13 6 12 12 12	5  6 21	12  16 0	13  8 9	sw.	Broad River Power Co. U. S. W. B. Aerological Agent C. and W. C. Ry. Southern Public Utiliti B. S. Wenther Bureau. M. M. Callhonn.
Kershaw Landrum Laurens	Lancaster. Greenville. Kershaw Spartanburg Laurens	3025 500 1063	27 3 13 14 11	73.3 *68.4 75.2 74.5 75.6	-1.3 -2.5 -0.8 -1.0	94 *87 96 96 95	12 24 21 21 17	48 *46 48 48 50	4 4 4 5 † 4	31 *35 37 37 36	5. 98 4. 28 4. 98 3. 05 4. 06	+0.81 -0.20 -1.81 -0.10	1.62 1.00 0.91 0.74 1.08	0 0 0 0	9 8 12 8 12	10 19 4 20 17	6 6 7 6 10	14 5 19 4 8	w. w. w.	J. Marvin Bowers, Blue Ridge Forests Co. John W. Hamel, R. Hartwell Wilds, D.D. L. G. Roff.
Pelzer Saluda Santuck	Newberry Newberry Anderson Saluda Union	502 850 536 512	36 25 25 27 26	74. 6 76. 0 75. 0 74. 0	-3.8 -2.6 -2.8 -2.9	96 98 98 96	†20 21 16 14	46 49 48 46	4 5 5 4	32 38 34 40	5, 64 4, 40 4, 76 5, 81 6, 44	+1,42 +0,26 +0,87 +1,51 +2,57	3.50 1.61 0.96 2.56 1.17	0 0 0	9 11 12 12 17		12 12 20 12		s. w.	Miss Alberta Sease. John H. Baxter. Joshun Y. Jones. W. S. Crout. E. W. Jeter.
Wilmilia Winnsboro Winthrop College ! !	Fairfield York	620 1061 545 690	52 36 29 35 29	72. 4 75. 4 72. 6 75. 0 74. 6	-4.2 -3.1 -2.6 +0.3 -2.0	92 96 96 94 95	†17 23 21 †21 †21 †20	47 57 48 49 50	5 † 4 5 † 4 5	37 30 37 32 38	5.18 4.54 2.46 7.44 6.31	+0.72 +0.20 -2.29 +3.06 +2.42	1. 25 0. 74 0. 76 2. 75 2. 30	0 0 0 0	11 12 12 19 19 8	23 12 17 6 4	0 8 8 12 23	12	s. sw. s.	M. H. Daniel. Mrs. S. E. Long. II. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
	xtremes			74.2	-2.5 -2.7	98	†20 20	46	4	41	5.13 5.78	+0.52 +0.88	3.50 3.50	0	11 11	12 13	9 8	9	s. s.	-

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c) appearing in the table indicate number of days missing; for example, b represents two days missing, etc. I Also on other whites. If Received too late to be included in means and summaries. The temperature data are from observed readings of the dry built: means are computed from observed readings. If Post-office addresses of these stations are as follows: Of Castar's Blead, Greenville; of Beaufort (near), Burton. Observations taken from dry bulb thermometer at 7 a. m., 3 p.m. and 10 p.m. The precipitation is less than 0.01 inch of rain or melted snow.

#### ERRATA.

May, 1929.—Laurens, prevailing wind direction, page 13, should be northeast. Santuck, total precipitation, pages 18 and 19, should be 6.51. Society IIII, lowest temperature, page 18, should be 45 on the 5th. Wlunsboro, date of highest temperature, page 18, should be 15th. Columbia, prevailing wind direction, pages 17 and 18, should be south.

# Daily Precipitation for June, 1929.

						_		-					1011	101	o u	no,	19:	00.															
Marie .	Drainage-	-														Day	of n	out	h.														
Stations.	basins.	1	2	3	4	5	6	7	8	9	10	111	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Totai.
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Perguson III	Sautee	Yuches																	6. 32														
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	Sayumudi Brond Saluda		. 76	.20 .		1.		:: .	. 02	62	5.1	• • • •		. 16		• • • •	40											.33		. 40			3, 63
Calliono Rotts kil	Saluda			.36 .		1			.30				.38				. 40					:::	80		.88	92	1. 57	0.04	. 73				6, 77 5, 40
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(drammitt. des	Brond				07					011	90								0.0														3.69
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Kershaw JII	Lynches		:::l.	. 10	34					25	01	97		. 21		. 40																	4.28
Lauren	Brond	.52		29	34					53 .				.07		46	.08 .	:::::				11		91	40	. 37	.17	.86	. 21	16.			4.98
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	Catawba						1		2. 8	50 .	. 60			.20 .					. 38						1.	00	81 .	48					6.31
Except as otherwise														-	-			-			1	1 .	2.6	1	1	1		-	7				

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. Iff Precipitation measured in the morning: amount then recorded is for the receding 24 hours. \*\*\*Regular Weather Bureau station: precipitation included in the next following measurement. Separate dates of fails not recorded. T. Trace, or less than 0.01 lich.

COMPARATIVE DATA FOR JUNE.

							COMP	ARAT	IVE D	ATA FOR	JUNE.								
	To	emperatr	ire.	Precip	itation.		e nnn days.	ber of	ling lirec-		Te	emperati	ire.	Precip	itation.	Avera	ge nun days.	iber of	n g rec-
Year.	Mean.	Highest	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevaili wind din tion.	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	ea	Partly cloudy.	Cloudy.	Prevaili wind dir
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tree:

							D	aily	Te	mp	era	ture	s f	or J	une	, 1	929														
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Blackville ) Maximum Minimum	65	91 69	76 65 84	52	53	84 62 79 68 86	88 61 81	89 65 80 70 86	67	60	57 82 61	62 86	66 86	70 93 68 83 75 95 64	65 87 71 81 69 92 66	65 84	70	67 86	66 84	69 89	70 91	69	70 88	70 88	68	69 80	68 82	72 91	72 94	66 · · · 84 · · ·	65.8
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Conway Minimum Maximum Minimum Minimum	88 67 89 65 88	69 87 68	55 69 69	74 50 72 50	80 52 79 51	80	84 57 87 59	62 86 61 87 63	67 79 68 67 65 79 66 70 67	62 65 59	58 81 57	57 87 53	86 72 93 67 91 62 90 66	90 64	81 70 87 73	86 66	90 68 91 71	90 70	90 64	89 68 92 67 93 72 93 69	94 70	84 77 90 67 89 74 91 69	91 71	88 69	68 87 76 85 70	80 72 75 68 82 75 78	85 69	87 71	90 74	88	84.9
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Garnett Minimum	96 92	84 70 95 65	62 68 68 80 68	78 56	51 80 53	82 59 88 60	90 58	90 60	88 63	61 70 60	85 58	80 59	94 62	65 93 68	88 68	89 64	90 65	69 95 65	92 66	100	99 67	95 65	98 69	89 68	85 65	70 83 69	88 69	92 70	94 70	94 69	
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Marion	90 65	88	75	73 50	85 50	90 76	81 55			67 60	82 59	56	93 64	65	85 70	89 67	92 68	86 64	79 64	85 64 95	93 68	93 68	93 70 93 73 90 70 89 71 89 72	93 69	88 69	81 69	85 68	88 70	89 73 93 72 89 72 93 71 87	90 60	<sup>6</sup> 86.1 <sup>6</sup> 64.5 86.9
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Society Hill M Maximum Minimum	91 65 87 62 90 64	65	68 68 7 80 8 66	72 52 73 50 75 50 75	80 47 85	83 48 85 59	65 57 86	87 62 88 62	69 63 85	59	57	88 57 90 59	59 92	64	67 74 72	66 83 67	69 91	90 69 88 67	90 63 88 61	69 92 67 97 61	68 95 70 95 69 95 71	61	70 89	89 71 87 67 89 72 88 70 87	84 69 88	67 78	68	88 72 88 69 90 71 85 70 91	72 93	64 91	63.3
Summerville \$\$   Maximum   Minimum							59		85 67					1			68	67		61 89 70	71 90	71 89	71 89	72 88	88 70 84	71 83	72 84	71 85	71 87	64 · · · 89 · · · 64 · · ·	
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Camden M   Minimum	67 91 67 85	6	2 7: 6 6: 0 7: 5 6: 2 7	0 79	82	86 56	61 90 57	92 62	76	81 50 78 57	8	2 65 8 95 5 57 2 85 3 59	9:	2 94 8 65	65	9: 6:	97	65	94 67 88 63	98	95 70 90	96 72	93	90 67	65 95 65 76	93 65	68 86 6-	89 62	91 65	93 -	89, 4 62, 8
Cherokee (near)   Maximum	85	6 8	2 7	1 7	49 1 77 1 49	85 54 86 56 79 55	57 81 50	62 81 61	76 64 69 69	75 57	8 5 8 5	2 8: 3 59	81	8 88	87 66	68	82	65 87 6-	62	63	90 66	66	85 67	69	69	64	7.5 68	68	66	85 · 59 ·	81.7 62.0
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Columbia ) Maximum	. 90	8	7 7 9 5	2 7	4 8° 2 56	57 85 62	60 65 65 65	85 61 87 68 68 68 65	6	7 79	5 5	9 6	9 6 9 6 8 8	2 95 8 76 8 96	65 66 66 66	6 8 6 8	6 70	8 70	65	9:	1 72	92 78 94 70	70	88 71 90 69	7	68	8 6	68 86 86 86	75	88	85.9 66.1 84.1
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Hogback Mountain.   Maximum	. 6	1 7	75 8 80 4	52 6 17 4	6 6 4 6 8	73 57	5	7 80 8 60 89	6 7	1 5	5 5	33 6 31 9 54 6	2 5	8 6	2 5	5 2 8 0 6	9 63	2 6	2 6	2 6 9 9 6	1 69	6 9	61 3 92	62 90	6 8	2 59	9 6	n 3 8	8	8 62 8 90	86.
Kershaw   Maximum .   Minimum .   Maximum .	. 6	1 7 6 2 6 2 6 7 8	66 5	82 6 17 4 19 7 56 4 75 7 54 5	8 4	9 58	81 61 7 5 8 5 8 5	6 62 6 85 7 61	8. 6. 7. 5. 7. 6. 7. 6. 7. 6. 7. 6. 7. 6. 7. 6. 7. 6. 7. 6. 7. 6. 7. 6. 7. 6. 7. 6. 7. 6. 7. 7. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	2 5 0 8 4 6	6 5	3 86 66 66 77 95 55 66 33 86 33 66 54 69 54 69 54 69	1 6	14 6 19 8 14 6	6 70 9 8	6 9	0 93	2 6 1 9 6 6 2 9 4 6	2 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 6	3 96	6 9 6 9 6 6	6 81 6 61 3 92 8 71 5 85 6 67	68 87 62 96 69 69	8 8	7 69 2 59 1 7 8 6 8 8 6	7 8 6 6 7 7 4 6	8 81 6 65	8 8	2 61 7 89 8 59	86. 63. 85.
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Little Mountain   Maximum   Minimum   Minimum   Maximum .   Minimum .   Minimum .   Maximum .   Minimum .   Minimum .   Maximum .   Minimum .	6	8 0	60	54 4	2 7 16 5 16 8 10 4	4 56	5 8	6 62	7	6 7	9 8	85 6	0 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	51 6 92 9 58 6 94 9 57 6 91 9	7 6	7 8	8 9	2 6	3 6	6 9	6 66 6 96 6 76 11 93	6 9	6 93	9:	2 4	4 6 2 7	7 7		8 9	0 63 2 90 1 64	. 87
Newberry   Maximum   Maximum   Minimum   Maximum   Saluda   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Maximum   Minimum   Maximum   Maximum   Minimum   Maximum   Maximu	. 6	6 8	67 87	58 5	50 4	9 57 9 79 8 55 6 85	8	0 6-	1 7	5 5	7 8	83 9	0 9	57 6 01 9	1 9	0 6	1 9 8 6 8 9 5 6 8 9 14 6 90 9	1 9	3 8	7 5	6 6	9 69 99 99 99 99 99 99 99 99 99 99 99 99	8 65 6 99 6 71 1 89 6 69 3 89 7 65	68 88 61 61 61 61 61 61 61 61 61 61 61 61 61	8 8	4 6 7 6 7 6 8 7 8 8	7 7	7 8 6 8 7 7 8 8 8 7 8 8 8 7 8 8 8 7 8 8 8 8	5 9	n 91 2 62	61. 85. 64.
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Spartanburg   Maximum .   Minimum .   Maximum .	6	12	83 65 87	65 65 72 58 58 55 69 66	18 4	8 86 7 54 9 81 7 61	55 85	1 8' 51 51 6 81 6 6 5 5	6 6	1 7 15 5 17 7 14 6	5 1 9 4 130 131 157 156 156	86 9 53 8 81 8 58 9 58 9 54 9 54 9 54 9 55 9 55 9	11 8 14 6 15 6 15 6 15 6	87 8 61 6 90 9	8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	35 8 35 6 35 6 35 6 35 6 35 6 35 6 35 6 35 6	3 6 9 9 9 6	12 6 10 8 19 6 19 6 19 6 19 6 19 6 19 6 19 6 19 6	3 6 8 9 6 6 92 9 31 9	54 6 50 9 59 7 64 9	2 8 8 5 6 9 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	8 6 6 9 6 9 8 6 8 8	6 8 6 8 6	7	1 7 9 6 8 7 6 6	24 68 68 68 68 68 68 68 68 68 68 68 68 68	6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1 8	7 88 60 59 67 87 67 87 60 87 65 57 88 88 62 63 88 90 60	81
Trenton   Maximum .   Minimum   Maximum .   Maximum .	6	66 11 14	68 81	59 75	75 8	1 8	9	6 8	4 7	14 6 17 8 19 5	33	85 1 54	101	68 6 89 8	89 8	5 9	00 9	91 8 31 6 92 8	39 9	02	co. G	6 9	2 8	6 8	9	1 7	1 2	8 8	5 6	1 67 10 87 15 57 18 88	65. 85. 59.
Walhalia Minimum Maximum Maximum	9	14	61 87	55 69	74 8	8 53 1 84	5 6	6 5 6 5 7 8 9 6	9	12 7 17 5 10 1	5	84 ! 54	00	64 6 92 9 66 6	17	5	64 6	52 58 52	89 9	66	93 9	4 9 0 6 5 9	5 6 14 9 19 7 14 9 18 6	0 6	11 8	12 7 17 F	6 6	18 8	5 8	8 88 2 63 8 90	85. 64. 86.
Winthrop College   Minimum		15 12 16	87 68 81 61 87 66 85 64	55 55	76 76 76 76 775 775 775 8774 88 449 449 449 860 860 860	8 807 549 817 617 617 8-18 851 851 851 851 851 851 851 851 851 8	8	7 8 9 6 7 8 6 6	5	n 58	6	85 55	90 54 90 82	91 9 65 6	00 8	64	83 S	02 66	65 (	65	95 9 68 6	5 9	8 6	6 6	8	17 6 14 7 18 6	35	79 8	9	88 90 70 60	63.
a more annual.		1	71			1	1									1	1					1				1	1	1			
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Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc. % Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 7-25-29-900

U. S. DEPARTMENT OF ACRICULTURE, WEATHER BUREAU, CHARLES F. MARVIN, Chief.

### CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol. XXXII.

COLUMBIA, S. C., JULY, 1929.

#### GENERAL SUMMARY.

The month was relatively cool, with a marked cool period from the 15th to the 23d. Precipitation averaged much below

Notwithstanding a superabundance of rain in some sections, subnormal amounts in others, and local drought in a few small areas, all crops made good advance during the month. Cotton and corn were in all stages of development incident to undamaged field near Barnwell on the 17th, about 11 days earlier than normal. Field truck, sweet potatoes, gardens, forage, and pastures improved generally, except in a few local drought areas. Tobacco curing continued throughout the month, with quality generally good to excellent. Melons, blackberries, peaches, and vegetables were marketed in season.

## TEMPERATURE.

The monthly mean for the Section, determined from reports of 41 stations, was 77.8°, or 1.9° below the normal. The highest temperature was 100° at Beaufort (near) and Blackville on the 2d. The lowest temperature was 49° at Caesar's Head on the 21st. During the marked cool period from the 15th to the 23d, inclusive, the daily mean temperatures ranged from 5° to 14° below normal; otherwise, the temperatures were practically seasonable.

### HUMIDITY.

The mean relative lumidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Seetion, was as follows: 8 a.m., 83%; noon, 59%; 8 p. m., 76%. The highest percentages occurred along the coast and in the extreme northwestern sections, and the lowest in the interior.

#### PRECIPITATION.

The average for the Section, 52 stations reporting, was 4.35 inches, or 1.55 inches below the normal. The month was during the month. generally showery, with but one date without rainfall in some part of the Section, and the amounts were very badly distributed. Along the lower Piedmont, in upper Greenville County, and on the lower coast, the measurements ranged from 6 to over 8 inches, while in extensive areas of the Picdmont and coastal plain, the amounts ranged downward from 5 inches to less than 2 inches. The greatest local monthly amount was 8.49 inches at Trenton; least local monthly amount, 1.50 inches at Rimini. The greatest amount during any 24 hours was 3,48 inches at Camden on the 30th. The average number of rainy days was 9% below normal. Light hail occurred at Pelzer on the 19th.

Killed by Lightning.—At Woodruff, July 4, 1:30 p. m., Mr. Rex Pearson, a prominent farmer. At Woodruff, July 8, 3:30 p. m., Martha Poole, young daughter of Mr. and Mrs. R.

M. Poole. At Charleston, July 13, 4:00 p. m., Robert Jenkins, colored fisherman, in a small boat while making a landing at Westpoint; two others were injured. At Clemson College, afternoon, July 30, James Henry, colored boy, while working in a college field; one other farm hand was injured.

Damage by Lightning, Hail and Wind.-July 13, 8:00 to 8:40 p. m., wind squall damaged property and timber about \$5,000 at Calhoun Falls. July 18, night, at Silver Street, Methodist Clatch damaged about \$1,000 by wind squall. July 19, hailstorm between Liberty and Easley, 3:30 p. m., damaged crops about \$7,500; hallstones were about the size of quail tags. July 19, afternoon, near Fingerville, northern Spartanburg County damage to crops about \$17,500 in area 2 miles wide and about 4, siles long; hailstones one-half to three-barths inch in Wameter. July 19, 1:30 to 2:30 p. m., along the Sumter Lee County line, hail damaged crops about \$15,006; Cotton and corn were in all stages of development incident to the whipping winds of May 2, but old corn and the major portion of the cotton crop were laid by at the end of the mouth; the latter was blooming and fruiting freely toward August, although conditions had been favorable for weevil activity in about 3:00 p.m., on Parkins Mill Road, near Greenville, large many sections, but poisoning was pursued more extensively than in former years; the first open boll was picked from an burned, with contents; loss about \$1,500. July 26, afternoon, and many sections. in Cypress Settlement, near Lamar, hail-damaged crops about \$17,500; the hailstones were about the size of hickory nuts, and the path was I mile wide and one and one-half miles long. July 30, near Camden, about 4 p m., wind squall damaged one of the large county fair buildings about \$1,000. during the thunderstorm in afternoon at Clemson College, two fine horses were killed by lightning; value, about \$500.

#### WIND.

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was 5.5 miles. The highest velocity for any 5-minute period was 38 miles per hour from the south at Due West on the 27th.

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 281.9 hours, or 64% of the possible amount. The average number of clear days was 13; partly cloudy, 12, and elondy, 6, as against normals of 13, 11, and 7 days, respectively.

#### RIVER CONDITIONS.

The Santee River was in flood at Rimini during four short periods; at Ferguson, two short periods, and at Jamestown, one short period. All other streams were below flood stages

#### MISCELLANEOUS DATA FOR JULY, 1929.

	sea.		perati		tio	ipita- n, hes.	Win 3-cup A		re	lean dati midi	ve	e of pos-
Stations.	Barometer, level,	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	S a. m.	Noon.	8 p. m.	Percentage sible sunsi
Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Menns and ex!	30, 08 30, 08 30, 09 30, 08 30, 09 30, 11 30, 08 30, 09 30, 08	71. 7 80. 0 79. 8 77. 6 79. 0 77. 3 77. 2 79. 5 78. 0	89 98 90 97 96 95 93 97	50 62 63 59 61 61 59 62 63	3. 13 6. 22 6. 07 3. 52 7. 62 4. 16 1. 62 5. 94 5. 03	0.66 2.54 2.24 1.09 2.63 0.95 0.44 1.87 1.57	4 8 3.9 7.8 3.3 5.2 6.0 5.9 7.6 5.4	se. s. sw. sw. s. sw. ne. se. sw.	92 82 78 81 85 84 82 84 80	57 54 68 55 57 57 58 65 62	75 71 77 70 69 72 77 78	56 78 63 63 67 64 73 48 70
tremes	30, 09	77.8	98	50	4.81	2.54	5.5	SW.	83	59	74	64

#### Climatelogical Data for July, 1929.

		Climatological Data for Jul  Temperature, in degrees Fahr.																		
			record.	Т	'emper	ature, i	n degi	ees Fa	hr.		Precip	itation,	in ine	nes.	Nun	ber c	f da	ıys.	etion	
Stations.	Counties.	~	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	With precipition (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing direct	Observers.
Eastern Portion.																				
Beaufort (near) <sup>‡‡</sup> Blackville Charleston Cheraw.	Beaufort	21 296 48 144	48 45 58 47	*80.7 79.2 79.8 77.1	-0.7 -2.2 -1.6 -2.9	°100 100 99 95	2 2 2 1	62 63 60	20 22 22 †21	<sup>5</sup> 29 31 24 29	6.96 4.25 6.07 4.32	+0.85 $-1.25$ $-0.82$ $-1.78$	2.10 1.19 2.24 1.06	0 0 0 0	8 9 12 9	17 10 5	7 21 18	7 0 8 	s. sw.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway	Horry Darlington Florence Orangeburg	25 175 106 63	39 34 38 43	78. 6 78. 1	-1.3 -1.8 -0.5	95 96 97	2 6 † 6	62 60 60	23 23 23	30 28  28	2.37 3.93 5.16 3.56	$\begin{array}{r} -4.34 \\ -1.79 \\ -0.96 \\ -3.08 \end{array}$	0.78 1.45 1.57 1.02	0 0 0	12 9 7 9	20 13 	8 	11 10 	sw.	Paul Quattlebaum. D. C. McCall. Wm. B. Gillespie. Henry C. Savage.
Florence 1	Florencedo	136 136 82 18	11 36	▶79.3 79.6	-1.9 -1.5	<sup>5</sup> 57	† 1	<sup>5</sup> 60	23	*32  33 	1.74 1.89 5.19	-4.14 -3.99 -2.13	0.94 0.75 3.00	0 0 0 	11 7 13	20 19 16 	2 10 14 6	9 2 1	SW.	II. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Vacant. Mrs. Ellen Scott.
Marion	Williamsburg  Marion  Florence  Orangeburg	68 92 264	4 6 13	78.8 79.0 	-1.6  -0.7	95 96 <sub>696</sub>	† 2 †11	59 62	23	34 527	3.61 2.48 2.47	-4.70	2.00 0.67 0.75	0 0	8 9	14	13	4	s.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel.
Pinopolis Rimini Society Hill Summerville Wedgelield Yenassee	Santer	97 192 75 249 24	15 38 31 39	777. 4 78. 6 79. 2 78. 4	-2.2 -1.3 -0.2 -2.3	*97 98 97 97	† 6 † 2 2 2	*59 60 62 57	†23 22 †17 22	133 29 30 32	1.50 5.84 2.91 1.98 6.87	-6.36 +0.52 -4.05 -3.04 -0.20	0. 45	0 0 0 0	9978	19 25 16	5 4 3 3	8 3 12	w. e. w. se.	Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta. W Hampton Ramsey W. C. Hutson.
Division means and	extremes			78.9	-1.5	100	2	57	22	34	3.85	2.47	3.00	0	9	16	9	6	sw.	
Western Portion,	•															23		1.	sw.	Frank B. McCoy.
Aiken Anderson Blairs Casars Head ‡‡ Calhonn Falls. Camden	Anderson Fairfield Greenville Abbeville	76:	36 3 24 8 5 8 80	78. 4 77. 8 70. 0 79. 8 81. 1	-1.7 -1.7 -1.7	94 	† 6 7 † 1 † 1 † 9	62 55 49 60 61	22 21 21 21 22 16	28  23 32	3.81 2.26 2.93 8.13 3.29 7.95	-1.11 -2.72 -2.11 -1.87 +2.64	0.64 1.25 2.56 1.36		0 6 0 10 0 5 0 12 0 4 0 11	22  2 14	12	17	. w.	11, 11, Russell. Esther B. Owens. Crear's Head—P. Mtn. Co L. M. Purker. Henry A. Brown.
Catawba Chappells. Cherokee (near). Chester Cleuson College	York	56: 40: 75: 48: 85: 35	2 24 8 1 7 7 0 37	74.0 78.1 79.0	+0.6	. 95 95	1 † 2 1	56 56 61	21	32	5. 52 3. 65 2. 91 2.89 7. 62	-0.57 -1.16 -2.39 +2.27	0.91		0 12 0 11 0 11 0 12	28	2	16		· James C. Faris. George V Chump. Spartanburg Water Works J. C. Cornwell. Prof. F. H. H. Calhoun. U. S. Weather Bureau.
Columbia  Crescent.  Due West.  Edgelield Gaston Shoals 11.  Greenville.	Spartanburg Abbeville Edgefield Cherokee Greenville	63 71 68 103	0 3 1 15 15 0 26 9 45	77.8	+0.3	98	i  1 † 2	61	2:	2 26	4. 97 4. 16 5. 96 5. 71 1. 62 4. 25	-0.40 +0.50 +1.10 -3.70 -0.80	1 2.60 6 2.20 4 0.44		0 1: 0 1: 0 1: 0 1: 0 1:	5	13	::::::	re.	Broad River Power Co. U. S. W. B. Aerological St. Agent C. and W. C. Ry. Southern Public Utilities U. S. Weather Bureau, M. M. Calhoum.
Greenwood Heath Springs Hogback Mountain . Kershaw Landrum . Laureus .	Laneaster	. 56 302 50 106	8 27 5 3 00 13 13 14	76.4 70.8 78.6 77.0	-2.5 -0.	9 92 88 4 96 1 97	†11 2 14 1	59 25 60 57	2: †2: †1: 2:	1 32 7 32 1 31	5. 18 4.70 4.42	+1.50 -1.10 -2.8 -0.5	1.86 2 2.90 0 0.9 0 1.4		0 1 0 1 0 1	8 20 0 3 3 13 4 17	10	5 4 6 4	w. w. w. w. w.	J. Marviu Bowers. Blue Ridge Forests Co. John W. Hamel. R. Hurtwell Wilds, D.D.S. L. G. Roff.
Little Mountain Newberry Pelzer Saluda Santnek	Newberry Newberry Anderson Saluda	. 71 . 50 . 85	$\begin{array}{c c} 02 & 25 \\ 50 & 25 \\ 86 & 27 \end{array}$	79.	1 -1.3 0 -3.	3 96 1 93	· ' i	55	12	7 29 7 38	6.09 6.49	-1.2 -3.7 +0.9 +1.3	2 1.2 9 0.9 1 1.5 6 2.4	8 4 0 4	0 1 0 1 0 1 0 1	2 11 3 9 0 3 5 2 9	2	67	3 sw 3 w. 0 sw 5 sw	John H. Baxter Joshna Y. Jones. W. S. Crout. E. W. Jeter.
Spartauburg. Treuton Walhalla Whusboro Wiuthrop College ‡‡.	Edgefield Oconee	106	20   36 61   29 45   35	77. 76. 78. 77.	8 -2. -0. 1 -1. -1.	4 98 9 95 5 95 5 95	†11 1 14 14	5 5 5	0 2 5 8 2 8 2	2 30 2 33 2 29 2 29	8. 49 1. 97 7. 15 2. 40	+2.9 -4.1 +2.1 -2.9	9 3.4 1 0.8 14 2.0 07 1.0	3 5 1 5	0 1 0 0 1 0 1	8 28 0 6 9 19 10 5	3 2 9 1 2 2 7 2	2 2 2 6 2	2   SW	Rev. Oliver Johnson W. T. Clawson.
Division means an Section means an	d extremes		- 1		1				·   ·	21 35					- 1	10 1:		12	6 sw	

The departures from the normal temperature and precipitation are computed only for such stations as have tenor more years of record, but all complete reports are used in debruilding section or division means. Reference letters (\* \( \bullet \), \*0, appearing in the table bedicate number of dary missing; for example, \*\( \bullet \) represents two days missing, etc. the station of the following section 
August, 1928.—Text. Tornadoes, page 29, Charleston, time should be p. m.

June, 1929.—Text. Killed by Lightning, near Olar, add date, 19th. Caesar's Head, mean temperature, page 22, should be 67.2. Summerville, mean minimum temperature, page 24, should be 65.6.

### Daily Precipitation for July, 1929.

	Drainage.														3	Day	of m	onth	١.														
Stations.	basins.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Tota
Eastern Portion. confort(neur). lackville     . lmrleston *** heraw     . lonway     .	Const			. 11			Ť.	24	OB	T	.06			10	1.14					.28			.28		1. 85	T. T. 1.06	1.00	T 03	. 41 . 38 . 01 T.	. 14 . 64 T.			6, 96 4,25 6, 07 4,32 2, 37
hrlington     nlington     erguson     lorence     lorence 2	Pee Dee			1. 02 T.	Ť				1. 45	.27 .11 .08	. 13			T. T. .14 .06 .28		.14	. 04			.04	. 65 . 16 . 68 . 06	.04	.70 .87 T. .94 .75			. 40		· · · ·	. 18			.88	3, 93 5, 16 3, 56 1, 74 1, 89
arnett. eorgetown Jingstree	Savannah Coast Black Pee Dee. do Edisto			. 19			Τ.	. 40	.20					.12	.34	 40 2.00 .10	i. 15			Ť.	T. .10 .60	.06	.40		. 03			1.10	61 T.	Т.	. 02	. 30 T	5. 19 3. 94 3. 61 2. 48 2. 47
inopolis Inini	Cooper Santee Pee Dee Ashley Wateree Ashepoo								. 19							. 57				. 19	.28	.45	.34			. 83		.86		1	. 27	1.38	1.50 5.84 2.91 1.96 6.87
iken nderson lairs       war's Hend alhoun Falls       unden	Edisto			1. 12		.74								.30	. 25	2. 10	.33		.09	65	. 68 .	. 12	1.25				. 30	.30			2.56	.48 .45	3, 81 2, 26 2, 93 8, 13 3, 29 7, 95
utnwbn      happeds      herokee (near) nester lemson College olumbla ***	Cutawba Saludu Brond do Savannuli Congaree		.33	.18	.56	····		T.	. 33	····		. 03		. 30	.05	····	. 22		.25	.10			.33		.11i		. 09	· · · ·	.10		.60		5. 52 3. 65 2. 91 2. 89 7. 62
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eath Springs ogback Mountain ershaw     undrum turens	Wuteree	.12	.32	.06	 .9i	i. 00 . 07 1. 41	.03	.03 . .06 . .58 . .59 .		.05	.10			.01	. 14  .55 T.	1.80	.10			3.00 .032 .12 .33	. 93 1 . 50 . 2. 90 . 33 . . 22	. 11	. 20 1. 16 . 09 . 30		. 12 	. 03 . 32 T.	. 46 . 55 . 18 T.	.27 .21 T.	.23		.27	.35	6.60 4.22 5.18 4.70 4.42
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Secret as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ## Regular Weather Bureau station; precipitation is non-interpretation of the precipitation in the interpretation of the precipitation in the precipitation in the precipitation is precipitation in east following measurements of fulls not recorded. T. Trace, release than 301 inch.

# COMPARATIVE DATA FOR JULY.

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	Vear.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	El & H Gays with O'01 inch Or more.		Cloudy.	Prevai wind	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind c
899 890 91 892 893 893 895 895 895 895 896 896 896 896 896 896 896 896 896 896		82. 0 78. 9 79. 5 78. 4 77. 9 78. 9 78. 0 77. 7 80. 2 80. 0 80. 0 81. 2 81. 4 80. 8 80. 4 80. 8 80. 4 80. 8 80. 4 80. 8	110 108 102 104 93 102 104 100 102 105 107 102 105 104 102 107 103 105 101 101 100 100	60 53 51 52 56 51 60 55 54 54 54 57 62 58 50 60 60 60 60 60 60 60 60 60 60 60 60 60	7. 49 3. 68 7. 13 6. 88 5. 95 7. 44 4. 17 5. 01 4. 08 4. 52 3. 79 6. 16 6. 16 6. 16 6. 16 6. 16 6. 16 6. 16	8	13 8 10 10 13 13 14 12 14 12 15 18 13 13 13 13 13 13 14 12 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	14 12 15 13 12 10 11 11 11 12 11 19 12 10 17 17	4 11 6 8 6 11 8 6 7 7 5 4 4 6 8 9 9 9 9 9	SW.	1910 1911 1912 1918 1918 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1927	77. 5 79. 3 78. 9 79. 6 79. 9 79. 0 78. 6 81. 5 80. 5 78. 3 79. 5 77. 8	102 102 102 109 107 106 99 102 103 103 102 101 104 104 106 108	58 53 58 56 53 55 60 52 50 51 53 60 58 57 56 68 57 56 58 57	5. 83 3.79 5. 22 4.78 5. 16 3. 26 14. 69 6. 56 5. 60 7. 44 7. 20 4. 50 3. 19 6. 28 6. 88 6. 81 4. 35	13 10 11 9 9 8 17 12 11 13 11 14 13 9 9 12 6 10 10 11 11 11 11 11 11 11 11 11 11 11	9 12 14 15 14 18 5 14 13 13 13 9 9 12 15 14 15 14 15 14 15 14 15 14 15 14 15 14 16 16 16 16 16 16 16 16 16 16 16 16 16	15 13 10 9 13 10 12 9 9 8 10 13 13 13 8 9 11 11 10 9	7 6 7 7 4 4 3 14 8 7 10 8 9 6 8 8 8 5 7 7 8 8 8 8 6 6 8 8 8 8 8 8 8 8 8 8 8 8	SW.
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Conway   Maximum Minimum	98 68	90 71 95 76 94 74	85 71 83 71	68	65	90 69	71 92 70	72	70 91 69	70 93 70	69 93 70	70 92 68	85 72 90 70	93 69	84 72 85 71	65 83	86 65 87	66 89	71	65	63 65	63 75	62	68 90	93 74 91 72	74 94	70 90	70 90	85 74 90 69 90 71 90 70	72 92	73 89 71	88. 69. ( 88. (
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Orangeburg   Minimum	68	73 96 74	70 83 70	61 91 67	63 69	68 94 70	92 70 92 70 97 67 89 69 92 72 91 70	91 70 87 69	68 91	92 70 92	91	67 91	71 91	94 70	88 70 92 72 85	83 65 79 67	86 62	89 67	68	65	61 75	88 62	90 59 87 64 87 59	93 69 92 59	73 91 73	95 . 73	70 .	92	90	96 72 92 73 93	95 71 90 70 90	69.6 188.
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Anderson   Minimum Caesar's Head   Minimum	. 8	80	68 82 64	79 64	67 74 63	82 62	82	80	81 61 92	82 62	68 80 62 93	60	80 61	88 62	78 64	70 59 95 67	76 59 92	68 78 61 93	81 60 95	70 58	76 49	66 50	78 54 91 61	80 60	82 61	84 64	80 65	83 62	62 90	63 63	79 62	79. 60.
Calhoun Falls 1   Maximum   Minimum	97	96	86 68 90	68	90 66	94 67	63 94 69	91 70	92 70	93 69	98 98	93 69	95 71 98	96 71	95 72	95 67	68	93 67	69	90 63	80 61	60	61	93 65	94 67	69	69	69	69	69	69	67.
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Cherokee (near)   Maximum	. 6	66	69 83 65	68	70 84 64	67	68	67	66	68	65	66	80 65	68	68	64	62	64	64	62	56	59	59	62	67	70	67	65	67	69	69	65.
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Hoghack Mountain.   Minimum   Maximum   Maximum	5	6 6 5 9	4 66 3 85 2 68	60	61	64 93	62 90	90	95	94	94	63 95 67 89	93	62 96 68 93	86 68	85 68	88 60	9:2	86	73	69	79 60	89	62 92 68 92	98 72	93 73	92 69	94	98 70	93 71	68 89 71	61. 89. 67.
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Trenton   Maximum . Minimum .	5	2 9 2 6 5 9	7 6 8 6 8 8	1 7 6 6 1 8 5 6 5 8	6 8	2 64 7 91 8 70 9 91 3 63	69	9 89	61	92	9: 70 9: 6:	66 91 68 93	67 87 72 92	70	72	81 66 81	67	61 89 74 89 64 89	90 67 91	63	61	60	90 65 88 59	68	91 69 92 64 99 71	68	88 68 91	65 86 69 98	91	71	70 84	68,
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Winthrop College / Minimum.	6	39 6	9 6	7 6	2 6	8 69	9.	2 70	6	69	6	67	66	65	68	63	3 62	68	69	65	59	58	62	66	70	72	6.8	66	69	70	68	67
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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 8-23-29-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAURARY OF THE CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL UNIVERSITY OF ILLINOIS

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

Vol. XXXII. COLUMBIA, S. C., AUGUST, 1929.

#### GENERAL SUMMARY.

The month was somewhat cooler than usual, but the precipitation was far below the average.

Though the rainfall was generally deficient, and local drought prevailed in the Piedmont sections, all crops made ith, 7 days earlier than normal; the crop bloomed and fruited ressed, but the general crop advanced favorably, as did property damage approximated \$50,000. weet potatoes, field truck, and minor crops. Tobacco curing vas finished about the 15th. Corn fodder pulling was nearing ompleton as the month closed, and the forage, peavine, and read thousand the prevailing wind was from the southwest. The average hourly velocity, determined from 9 anenometer records, was egetables were marketed in season.

#### PRESSURE.

The mean sea-level pressure, determined from reports of 9 gular Weather Bureau stations in and surrounding the Secon, was 30.01 inches. The highest pressure was 30.33 inches at ne Section proper, 29.73 inches at Columbia on the same date.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 39 stations, was 78.0°, or 0.9° below normal. The oun Falls on the 24th. The lowest temperature was 50° at freshet conditions were relatively absent. ogback Mountain on the 4th. The warm and cool periods MISCELLANEOUS PHENOMEN ere of short duration, with daily means ranging 5° to 8° pove or below normal.

gular Weather Bureau stations in and surrounding the Secon, was as follows: 8 a.m., 84%: noon, 60%: 8 p. m., 73% he highest percentages occurred along the coast, and the west over the northwestern counties.

# PRECIPITATION.

The average for the Section, 51 stations reporting, was 18 inches, or 2.65 inches below the normal. Precipitation curred in five fairly well defined periods in the western dision and six periods in the eastern division. The total monthly aounts were badly distributed, with 5 to over 8 inches on the treme lower coast, in a narrow strip of territory from the iddle coast to Laurens County, and in southern Florence unty, while elsewhere the measurements ranged downward om 5 inches to less than 1 inch, the lighter amounts being in

considerable areas of the higher Piedmont and the upper Savannah Basin. The greatest local monthly amount was 8.70 inches at Ferguson; least local monthly amount, 0.60 inch at Landrum. The greatest 24-hour amount at any station was 6.03 inches at Ferguson on July 31-August 1. The average number of rainy days was 30% below normal. Light hail

occurred at Little Mountain on the 29th.

Damage by Lightning and Hail .- On August 4, near Burton, a barn was fired by lightning and burned, with two cars; damage, about \$3,000. At Winthrop College, Rock Hill, hail caused considerable damage to crops and gardens on August 24. A cow was killed by lightning at Van Wyck on August 30; good advance, as a whole. Cotton and corn, while having sufered material damage from the early May winds, made vigoroccurred in the vicinty of Woodruff about 4 p. m., August 29, prous growth generally. Cotton bolls in the old crop opened in a path 1 to 4 miles wide and 7 to 8 miles long; the hail-ather early, and the first bale was ginned at Syracuse on the stones ranged in size from marbles to guinea eggs, and hail continued about 40 minutes in some sections; ice drifts of 4 to 18 vell throughout the month, but toward the close the weevils inches deep were noted in places, and hailstones did not disvere taking the top crop from tender and sappy plants. Corn appear from isolated spots until September 2; crop damage has egan firing in sections of the Piedmont as the month pro-

uring the first week, and melons, pears, apples, grapes, and 5.5 miles. The highest velocity for any 5-minute period was 36 miles per hour from the west at Savannah, Ga., on the 4th, and in the Section proper, 29 miles per hour from the northwest at Due West on the 24th.

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 autoone West and Charlotte, N. C., on the 21st; the lowest presumatic records, was 281.1 hours, or 68% of the possible amount. The average number of clear days was 16; partly cloudy, 8, and cloudy. 7, as against normals of 13, 11, and 7 days, respectively.

# RIVER CONDITIONS.

The Santee River was close to or slightly above flood ghest temperature was 101° at Camden on the 2d and at Cal-stages at Rimini and Ferguson early in the month; otherwise,

#### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 18; Columbia, 17; Greenville,

The mean relative humidity, determined from reports of 9

11. Solar: Greenville, 12, 13.
Fog. dense.—Catawha, 7; Columbia, 18; Due West, 18;
Greenville, 19; Mars Bluff, 7, 9; Trenton, 2, 9, 19.

# MISCELLANEOUS DATA FOR AUGUST, 1929.

	r, sea	Tem	perati ees F	ure, ahr.	tic	ipita- on, ches.	Wir 3-cup A		re	Mean Plati midi	9.7	of pos-
Stations.	Barometer, level.	Mean.	Highest:	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8.a. m.	Noon.	8 p. m.	Percentage c
Asheville, N. C. Augusta, Ga. Charleston, S. C. Charlotte, N. C. Columbia, S. C. Due West, S. C. Greenville, S. C. Savannal, Ga. Wilmington, N. C. Means and ex. tremes.	30, 02 29, 99 30, 00 30, 01 80, 01 30, 04 30, 01 30, 01 30, 00	70.8 81.3 80.7 76.7 79.6 78.2 77.2 80.4 77.5	87 98 96 95 97 96 94 96 94	51 63 68 59 60 60 60 68 61	0. 82 0. 90 5. 22 2.78 6. 05 0. 66 1. 35 8. 99 7. 80	0. 27 0. 46 1. 68 0. 95 1. 71 0. 30 0. 71 2. 81 1. 89	4.8 4.0 7.8 3.2 4.8 6.2 6.1 7.7 4.7	nw. ne. sw. ne. ne. sw. ne. w.	91 81 81 84 83 82 78 87 86	55 52 66 56 68 53 54 66 66	70 67 79 67 76  65 81 80	59 75 63 70 71 69 87 57 59

#### Climatological Data for August, 1929.

					Clim	atolo	gical	Dat	a ioi	Au	gust,	1929.					_			
			record.	Т	empera	ture, i	n degi	ees F	ahr.		Precip	itation,	in inc	hes.		ber o	f da	ıys.	ction	
Stations.	Counties.	on, feet	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	(ireatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	With precipition (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Eastern Portion.							1													
Beaufort (near)‡‡ Blackville Clardeston Cheraw	Beaufort	21 296 48 144	48 45 58 47	80.3 80.6 80.7 77.4	-0.8 +0.1 -0.3 -1.3	98 100 96 94	4 4 2	65 66 68 56	26 81 30 31	29 32 19 32	4, 52 8, 04 5, 22 4, 88	-2.14 $-2.47$ $-1.31$ $-1.45$	1. 15 1.89 1.68 1.01	0 0 0 0	9 4 10 11	12 14 5	7 17 16	12 0 10	s. sw.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway Darlington Effingham Ferguson‡‡	Horry Darlington Florence Orangeburg	25 175 106 63	89 34 38 43	79.4 78.2	+0.2 -0.7 +1.2	97 95 95	† <sup>4</sup> / <sub>2</sub>	58 56 54	31 31 31	30 33 	8. 82 5. 01 6. 65 8. 70	-3.01 -0.04 +0.84 +1.89	1.14 1.80 1.90 6.03	0 0 0 0	9 8 7 9	21 13	0 8	10 10 	se.	Paul Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Florencedo	136 136 82 18 54	47 14 11 36 47	78. 8 680. 0	-1. 4 -0. 6 -0. 8	98 1699 97	† 2 	57 61	31 29 31	31 530 32	3.23 1.99 4.68	+8.73 -3.35 -0.57	0.98 0.70 1.40	0 0 0 	7 5 10 6	21 17 15 	7 12 11	3 2 5 9	sw. s	II. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Vacant. Mrs. Ellen Scott.
Kingstree	Marion Florence Orangeburg Berkeley	68 92 264 54	4 6 18 82	479.0 80.2	0.0	*98 97	†11	*55 59	31 31	*33	8. 17 4. 93 6. 73	+1.81	1.94 1.80 2.45	0 0 0	10 13	10	15 11	6	re.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel.
Rimini Society Hill Summerville Wedgefield Yemassee	Sumter	97 192 75 249 24	15 38 31 39 40	177.6 75.8 177.4 79.2	-1.0 -3.7 +3.3 -0.7	196 98 100 96	† 1 5 4 4	#54 59 h60 59	31 †28 31 28	h36	3.70 5.01 4.56 2.65 4.78	-1.82 -0.71 -2.54 -3.04 -1.50	1.59 1.72 1.65	0 0 0 0	6 5 9	21 11 24 13	4 6 5 2	6 14 2 16	W. W. SW.	Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta. W. Hampton Ramsey W. C. Hulson.
Division means and	extremes			79.0	+0.7	100	4	54	31	36	4.47	-1.88	6.03	0	8	16	8	7	sw.	
Western Portion,													1							
Aiken Auderson Blairs Cesars Headi <sup>‡‡</sup> Calloun Fulls Cannden	Fairfield	527 764 293 3118 508 222	30	79. 8 78. 8 69. 8 80. 4 80. 4	+0.9 +0.4 	96 97 86 101 101	24 4 8 24 2	62 60 53 61 59	31 31 31 31 31 31 31 31 31 31 31 31 31 3	36 29 35	0.79 0.87 5.51 2.12 0.85 2.71	-4.48 -4.08 +4.40	1.98 0.95 1 0.38		3 6	26  4 21	2 0 15 1	12	w.	Frank B. McCoy. 11. II. Russell. Esther B. Owens. Crear's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba Chappells, Cherokee (near). Clester Cleuson College	York Newberry Spartanburg Chester Ocouee	562 402 758 487 850 351	28 24 1 7 37	74.8 78.7 79.6	-1.4	98 97 97	14 † 4 2	54 56 60	34	 i 88	2.62 1.39 1.06 1.67 6.05	-2. 28 -2. 7: -3. 33 +0. 58	1 0.85 0.48		9 4	28	13 12		sw.	James C. Faris. George V. Clamp. Spartanburg Water Works. J. C. Cornwell. Prof. F. H. H. Calhonn. U. S. Weather Bureau.
Columbia  Crescent.  Due West. Edgefield. Gaston Shoals 1]. Greenville. Greenwood.	Spartanburg Abbeville Edgelield Cherokee	630	3 15 15 26 45	78. 2	-0.4 +1.4	96	24 2 2 25	60 60 55	: ::::	5 25	. 2.81 . 1.41 1.35	-0.69 -3.99 -4.1	9 1.35 0 0.45 5 0.7	2	0 10 50 50 50 60 60 60 60	13	15 15 0	5	3 11e.	Broad River Power Co. U. S. W. B. Aerological Sta. Agent C. and W. C. Ry. Southern Public Utilities. U. S. Weather Bureau. M. M. Calloun.
Henth Springs Hogback Mountain . Kershaw Landrum Lautens	Lancaster	568 3028 500	27 3 13 14	76.8 72.4 78.4	-0.2	95 97	† 3 23	60	8	4 87 1 32 1 34	1.81	-0.1 -4.0	0.60 4 1.20 4 0.4	5	0 1	3 23	11	5 1: 0 1:	w.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Hamei. R. Hartwell Wilds, D.D.S. L. G. Roff.
Little Mountain Newberry Pelzer Saluda Sautnek	Newberry Newberry Anderson Saluda	. 850	2   25 5   25 5   27	76.	-3.2	98	† 2	55		6 36	1.5	-2.0 -2.1	0.5 4 0.3	8 2	0	1 10 7 13		9	2 s. 2 sw. 3 sw.	Miss Alberta Sease. John H. Baxter. Joshna Y. Jones. W. S. Crout. E. W. Jeter.
Spartanburg Trenton Wallmila Winnsboro Winthrop College II.	Spartanburg Edgefield Oconee Fairfield	. 106 . 106 . 54	5 52 0 36 1 29 5 85	75.4 79.0 76. 478.1 77.1	$ \begin{array}{c cccc} 4 & -2.4 \\ 0 & -0.4 \\ 1 & -1.4 \\ 3 & +0.1 \\ -1.1 \end{array} $	97 1 97 1 499 1 96	24 28 15 15	5: 45 5'	1 3	31 36 31 22 5 42 31 43 30 4	1.0- 2 2.5 7 2.9 9 2.8	$ \begin{array}{c cccc} 4 & -4.4 \\ -3.5 \\ 7 & -2.1 \\ -2.4 \end{array} $	16 0.6 31 1.0 17 1.4 16 1.1	5 8 5 0	0 0 0	7 26 8 13 6 21 8 15 4 14 6 16	10	1 7 0 6	2 7 e. 3 sw. 6 sw. 1 s.	Rev. Oliver Johnson W. T. Clawson.
	d extremes	1	- D					1		4 4						7 16	1	- 1	7 sw	
action means an	d extremes	1	1	10.	1		1			1	1			1	1.		1	1	1	

The departures from the normal temperature and precipitation are computed only for such stations as have ton or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the tablished member of days missing; for example, b represents two days missing, etc. and the state of 
Daily Precipitation for August, 1929.

	1	Day of month,																															
Stations.	Drainage- basins.	-	-			1	,									Day	of r	nont	h.														
	Oastus.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	80	31	[ota]
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acten ##	Sayannah Wateree											. 29	. 33	.11						. 12					20	• • • • •			• • • •				2. 12 0. 85
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th Springs back Mountain.	Wateree	.							. 82			.50 .	11																				
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herry	Saluda																									04 . 5	58		1.	30			5.22
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		- 1		- U	U		- 1	11	- 1			1	7.											1.0	0 .3	52				1.	10		2,87

COMPARATIVE DATA FOR AUGUST.

	Те	mperatu	ire.	Precip	itation.		days.	ber of	ling irec-		T	emperati	ire.	Precip	itation.	Avera	ge num days,	ber of	E 5
Venr.	Mean.	Highest.	Lowest.	Average,	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevaili wind dir
	77. 8 77. 8 74. 4 77. 1 78. 9 77. 5 77. 9 80. 4 78. 0 78. 6 80. 6 77. 9 80. 6 77. 9 80. 6 77. 9 80. 6 78. 6	101 102 97 96 98 96 97 102 101 105 102 99 103 106 97 104 105 102 107 100 101 100 100 100 100 100 100 100	49 50 45 51 55 55 55 55 55 57 57 57 57 57 56 60 54 46* 60 449 53	6. 54 4. 53 6. 37 4. 25 8. 79 4. 42 12. 45 7. 28 7. 95 4. 14 5. 16 9. 81 6. 26 2. 13 9. 07 7. 15 8. 47 5. 69 6. 26 5. 41 9. 41	11 10 12 9				SW. Se. S. S. SW. SW. SW. SW. SW. SW. SW. SW.	1910. 1911. 1912. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1922. 1924. 1924. 1925. 1926. 1927. 1928.	79.0 80.0 79.2 78.9 79.0 78.8 79.6 78.5 80.2 78.5 77.7 78.2 76.4 79.3 80.4 80.2 80.7 76.1 79.4 78.0	101 104 104 104 101 102 100 102 108 103 100 102 98 101 105 109 109 99 98 8101	60 51 54 52 56 52 58 49 52 53 56 66 64 49 54 55 49 54 55 49 55 49 56 56 56 56 56 56 56 56 56 56	6,00 6,05 3,69 3,76 5,88 7,62 3,27 3,23 4,45 5,08 4,14 5,07 7,44 2,86 4,34 10,22 3,18 5,83	10 12 9 9 13 14 8 8 7 7 9 14 10 11 11 26 4 7 7 9	11 110 110 116 15 9 9 11 16 15 20 14 14 12 11 18 21 17 12 13 16 15 13 16 13	12 15 8 9 9 15 111 10 7 7 11 12 12 10 8 8 11 10 10 10 11 1 8	8 6 6 7 7 7 7 7 9 9 5 5 6 4 6 6 111 11 9 9 4 3 3 4 9 7 7 7	ne. sw. sw. sw. sw. sw. sw. sw. sw. sw. sw

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Beaufort (near) { Maximum } Minimum	86 75	90 75 99	95 75 98 74	98 76	86 70 91	03 9 72 7 93 9	5 7	75 7	8 9	93 9 74 7 91 9 73 7	6 5	74	92 74	74 7	15	86 8 76 7 89 8	9 8 3 7	38 8 74 7 37 9 72 7 37 9	72 7	9 8 0 7 32 8	85 8	6 9 7 6	8 7	6 8	85 68 87 71 85 74 78 68 68 70 78 68	65	66 6	59 8 59 7 59 7 502 9 53 6 54 8 59 7 59 8 59 8 50 8	0 8 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1 78 0 68 4 85 5 61 7 79 8 69 8 69 8 10 8 81 8 10 8 10 8 10 8 10 8 10 8 10	72. 1 91.6
Blackville / Minimum	96 72 90	69	98 74	75	68	56	73	99 8 73 7 90 8	11	73	2	72	93 73	73 87	72	73 7 86 8	7 8 2 7 6 8	72 7	00 8	70 6 55 8 74 7	57 6 53 8	56 6 52 9	6 7	18 10 18 15 15 19	71 85	68 88	89 8 65 6 83 8 70 6	53 6 54 8 59 7	3 6	5 61	69.6 87.2
Charleston Maximum Minimum	75	59 74 94	93 78 94 71	96 79	84 72 85	35 75 89	79	78	4 79	01 9 75 92	2 14 18	72 94 76 94 94 70	90 76 87	76 1 94 1	77	77 7 82 8	66 8 72 7 88 8 69 6 85 8	76 88	77) '	74 30 8	32	32 9 74 5 86 8	0 9	5	74 78	82	70 87 61	9 8	8 8	0 81	87. 2 74. 2 87. 5 67. 0
Cheraw M Maximum Minimum Maximum	70	70 95	71	75	60	94	73 89 79 89 89 89 89	931 1	39	68 '	2 3	70 95	72 91	71 90	01	77 77 82 8 65 65 65 87 8 87 8 80 8	55 8	69 6 67 9	68 92 73	52 8	52 55 53	50 6 56 9 51 6	58 6 91 9 55 7 52 9	95	68 70	79 69	84	89 8 82 6 90 8 91 6 91 9	9 8	0 83	89.3 69.4 88.3
Conway Minimum	90 70 92 78 89 71	71 95 71	95 75 93 75	79: 92: 75: 97: 78: 95: 77:	84	67 '	71 92 70	74	72 83 72	74	78	73 94 72	72 91 74 91 73	72 93	93 72 89 77 91 71 91 73 89 72	71 7 80 8	70 7 37 8 39 7	76 5 88 9 69 6 87 9 72 7 89 9	91 69	80 8 85 6 82 8 87 6 81 8	56	90 8	52 5 57 7	95 12 15	78 68	81 66	84 67 87 63	1 9	3 6	0 8-	88.3 68.0
Darnington yy } Minimum				- 1	62	63					- 1	1			92	90 9	90 9		93	84	86	38 9	12 5			85				31 79 36 5	00.4
Ferguson %   Maximum   Minimum	94	95 70 98	94	95 78 95		92 74 92	73 92	72 91	73 90			94 73 98 71	92 72 94	67 90 73 92	73 90	72 81 69	72 87 70	91 71 86	93 72 86	82	66   84	33 89	34 6	38 97 70	90 70 84 69	80	65 85 64	90 9 59 6 90 8	11 8 30 6 38 8 33 6 51 6	6 5 6 5	68. 9 88. 9 68. 8
Florence 1   Maximum   Maximum	71 92 73, 89 71	70 95	74 97 75 95	75 98 75	90	62 85	78 92 71 96 71	72 91 76 97	73 90 73 92	72 93	71 95 72 99 72	71 98 71	76 92 72	73 92	73 90 72 91 71	93 5	90 !	72 91	72 90 69	67 89 67	63 84 68		36 7 32			67 87 67	88	62 6 90 9 68 6	90 8	81 8- 16 5 82 8- 84 6	68.8 4 <sup>1</sup> 91.4 4 <sup>1</sup> 68.5
(Maximum	71	69	72	75	68	66	71	70	70	68	72	71	72	68	71	69	70	69													
Georgetown ( Minimum ) Maximum	94	97	95	97	91	94	93	96	 95 73	93 73	95 72	96	92 75	90 72	91 73	86 72	86	93 71	92 73				91 9	97 72	88 69	81 69	88 65		90 8 13 6	85 8 85 5	3 91.0 7 69.6
Kingstree Minimum	72	71	75	96	65	- 1/	72	93	88	96	98	74 98	93	93	90	82	88	92	94	82		88 58		96	84	- 1	81	92		80 8	4 =90.2 5 =67.8 5 90.8
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Columbia ) Maximum . / Minimum .		73 7	9 7 7 9 2 7 4 9	6 75	85 66 84	91 68 88 63	65 92 75 91	75 93	73 87	72 87	74 94 72 89	73 90	90 73 91 69	75 95	91	71 81	71 84	87 72 91 68	71 92 68	80 68 78 69	67 84 67	89	94	96 69	77 67 72	83	89 62 88	92	63 90 68	80 64	84 88.6 60 67.7
Due West   Maximum .   Minimum .   Maximum .   Minimum .   Mi	6	38 6	8 7	2 89	62	63 89 64	68 87 70	93 75 93 70 91 70	78 87 73 87 71	92 72 87 72 87 72	72 89	70 90	69 90 70	95 70 91 72	69 89 70	69 79 65	70 83 69	89 70	91 67	78 68	81 66	63 88 67	91 70	92 71	72 66	83 67 81 63	88 63	89 68	86 63	78 62	82 86.7 61 67.7
Greenville i Minimum			50 7	3 7	2 60				71 95		67	71 95	70 98				87 69	88	93	94	80	88	91				85	91 61	94	91	85 90.7
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Heath Springs / Maximum / Minimum / Maximum		71	70 7	10 9 1 7 5 8		87 60 77	71 81	71 80 62	68	67 82	71 85	70 81	84 71 80	83	71 84	65	83 67 80 60	70 71 62	84	9.4	68 72 59	59	83	70 85 67 95 70	83	84 73 81	81 69	84	66	81 61 77 71 80 62	77 S1.7 64 63,1
Hogback Mountain.   Maximum.   Maximum.   Maximum		62	34 8 35 6	7 5	n 51	58	63 94	93	82 63 85 70	66 94 68	67 95 72 92	65	69	95	60 94 71	57 82 65	68 68	62 92 71	64 93 69	59 79 66	86 62	92 60	87 67	95 70	79	81 68	88	64 89 62	89 66	80 62	88 89.4 60 67.5
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Treuton   Maximum   Minimum		70	63 92 71 95 63 95 70 92	91 1 74 95	71 5 01 8 75 6 94 8	6.	1 70	0 75	7	75	7:	9 71	7 8	92	5	2 70 9 82	71 87 68	90	70 9: 5 6:	66 85 65	67 85 66	65 90 62	97	9,	2 6 7 8 2 6	8 6 9 8 2 5 9 9	5 91	65 95 59 90 62	65 89 62	83 56	86 89.7 54 62.5 83 490.5
Walhalla Maximum Maximum		70 91 63 91	63	68 91	68 5 02 8 75 6	5 9	9	3 6	1 6	6 9	9:	5 9	3 9	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4I 6	3 61	91 69	1	d.	75	9:				. 8	9 9	14 60	62	66	. 801	83 490.5 51 466.1
Winnsboro W / Minimum. ( Maximum		71 92	70	75 93	95 9	0 6	2 7	7 7:	7	3 9	3 3	3 7 0 9 7 6	5 0	1 7: 13 9 36 7	1 9	6 95	§ 84	4 8	7 8	6 6	6- 6- 6-	1 85	8.5	8	8 7	7 8 5 6	33 8' 33 5'	88	89 63	85 57	83 89.7 67 64.8
Winthrop College / Minimum.		67	65	63	68 5	5 6	6	9 6	5 6	9 6	6 6	6	1	,,	1	0,				1											

Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

M. Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 9-24-29 -900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

NOV 2 1929

# UNIVERSITY OF ILLINOIS CLIMATOLOGICAL

# SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol. XXXII. Columbia, S. C., September, 1929.

#### GENERAL SUMMARY.

The month was generally favorable for growth of sweet potatoes, young oats, peavines, truck, and pastures, and for cotton and corn until the rains culminating about the 26th-27th, hourly velocity, determined from 9 anemometer records, was weather and cloudiness were attended by considerable cotton on the 29th. boll rot and damage to grade, while much lowland corn was ruined. Conditions were generally better in most of the eastern sections, and bolls opened rather rapidly, with picking and ginning active. Farm operations, except chores, were practically suspended in the northern and western counties toward the close of the month, and the general crop situation was aggravated by renewed hurricane rains beginning on September 30.

The mean sea-level pressure, determined from reports of 9 regular Weather Burean stations in and surrounding the Section, was 30.06 inches. The highest pressure was 30.29 inches at Colombia and Due West on the 1st; the lowest pressure was 29.72 inches at Savannah, Ga., on the 30th, and in the Section proper, 29.78 inches at Charleston on the same date.

### TEMPERATURE.

The mouthly mean for the Section, determined from reports of 40 stations, was 72 6°, or 1.8° below normal. The nighest temperature was 97° at Trenton on the 6th. The warm periods were from the 5th to the 11th, 14th to 17th, and 7th to 30th, inclusive, with temperatures 5° to 8° per day hove normal. The lowest temperature was 39° at Caesar's lead on the 20th. The cool period was from the 18th to the

### HUMIDITY.

The mean relative humidity, determined from reports of 9 egular Weather Bureau stations in and surrounding the Secon, was as follows: 8 a.m., 88%; noon, 68%; 8 p. m., 81% he highest percentages occurred along the coast, and the owest, in the north-central interior.

### PRECIPITATION.

The average for the Section, 52 stations reporting, was 36 inches, or 3.18 inches above the normal. Precipitation as very badly distributed as to areas and amounts; the easurements ranged near or below 2 inches in sections of orence. Fairfield and Newberry Counties, and thence upward over 16 inches in Hampton County and over 15 inches in ctions of Abbeville, Laurens and Spartanburg Counties. The

bulk of the month's rainfall occurred during the period 22d to 27th, culminating with the hurricane rains of the 26-27th in the western and northwestern counties. The greatest local No. 9 Roserth and northwestern countries. The greatest head monthly amount was 16.53 inches at Garnett; least monthly amount, 1.67 inches at Florence No. 1. The greatest 24-Leur rainfall was 10.72 inches at Laurèns on the 26th. The average number of rainy days was 86% above normal.

The month was decidedly wet, with extraordinary rains in striking the city in small areas of the western, central, and A small tormado visited Dillon, S. C., about 2 p. m., 14th, The moduli was decidedly were written and the western and northwestern counties, followed by high floods, endutions quite similar to those of September, last year; meanwhile, large areas of the central and eastern counties escaped large warehouse was blown off; total damage, estimated at

when drenching showers and flooded lowlands in the north- 6.7 miles per hour. The highest velocity for any 5-minute period forage harvest was rather severely delayed. Prolonged wet Greenville on the 21st, and from the east at Savannah, Ga.,

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 177.2 hours, or 48% of the possible amount. The average number of clear days was 10; partly cloudy, 7, and cloudy, 13, as against normals of 15, 8, and 7 days, respectively.

### RIVER CONDITIONS.

Hurricane rains of 6 to over 12 inches in the northwestern counties on the 26-27th were followed by floods in the northwestern streams during the closing period of the month. The situation was aggravated by additional heavy to excessive hurricane rains generally early in October. Further details will appear in the October bulletin.

# MISCELLANEOUS DATA FOR SEPTEMBER, 1929.

Stations, \$\frac{1}{2}	iperature, rees Fahr.	Precipita- tion, inches.	Wind. 3-cup Anem.	Mean relative	r nos-
Asheville, N. C. 30, 68 66, 4 Angusta, Ga. 30, 64 75, 3 Charleteston, S. C. 30, 68 71, 2 Charlotte, N. C. 30, 68 71, 2 Columbia, S. C. 30, 06 73, 8 Due West, S. C. 30, 09 71, 0 Greenville, S. C. 30, 07				withing it.	7. 10.
Angusta, Ga.   30, c4   75, 3   Charleston, S. C.   30, 68   75, 9   Charlotte, N. C.   30, 68   71, 2   Columbia, S. C.   30, 06   73, 8   Due West, S. C.   30, 09   71, 0   Greenville, S. C.   30, 09   75, 4	Highest.	foral. Greatest 24 hours.	Average hourly velocity. miles. Prevailing direction.	8 a. m. Noon.	S p. m.   Percentage
Savannah, Ga 30, 62 75, 7 Wilmington, N. C. 30 06 73, 6 Means and ex- tremes 30, 06 72, 6		9 82 3 29 11.36 8 38 3.86 0.97 30.1 2.02 3.27 2.81 15.44 5.96 12.95 5.85 6.56 3.28 8.45 8.38	5 7 se, 4.7 ne, 10.3 ne, 4.0 ne, 5 5 ne, 7.5 ne, 7.5 re 9 1 e, 5.7 n.	87 64 74 887 64 1588 64 1589 69 88 71 8 91 77 8 88 70 8	78 41 75 48 83 45 74 60 76 47 42 80 56 87 37 86 52 80 48

# Climatological Data for September, 1929.

					Climat	tologi	ical I	ata f	or Se	epter							_		g .	
			record,	1	Tempera	ature.	in deg	rees Fa	hr.		Precip	itation,	in inci		Num		of day	rs.	direction and.	
Stations.	Counties.	Elevation, feet.	Length of received	Mean.	Departure from the normal.	Highest.	Date.	Lowest.		Greatest daily range.	Total.	peparture from the normal.	Greatest In 24 hours.	Total snowfall.	With precipit on (0.01 in. or more)	Clear.	Partly clouds.	Clouds.	Prevalling dir	Observers.
Eastera Partion.  Beaufort (near)** Blackville Charlestun. Cherew Conway Darlington Litingiani Ferguson**  Florence 2†† Garnett Georgetown Kingstire. Marlon Mars Binff. Orangelning Finopolis Rimini Society Hill Sommerville Weilgyfield Yemassee Division means as  Wedera Partion.  Alken Andetson Blairs Casters ind Cathorn Catawba Catawba Cherokee (near) Chester Columbia Crescent. Div Wet Greenumele Crescent. Div West Crescent. Div West Crescent. Div West Greenumod.	Charleston Chesterfield Horry Darlington Florence Orangelutz Florence Hampton Georgetown Williamsburg Marfon Florence Orangelutz Sunter Barlington Dorchester Hampton Carentylle Anderson Fairfield Greenville Kerslaw Vork Newberry Spartanburg Chester Cocone Richiand Sparkelied Ciprotkee Greenville Clarrokee Greenville Clarrokee Greenville Clarrokee	211 2969 4 144 144 144 145 157 159 159 159 159 159 159 159 159 159 159	1	75. 6 6 74. 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	6 -2.3	90 90 90 90 90 90 90 90 90 90 90 90 90 9	1	51 19 19 19 19 19 19 19 19 19 19 19 19 19	21 20 20 20 20 20 20 3 20 3 20 3 20 3 20	27 29 19 26 30 30 30 30 30 30 30 30 30 30 30 30 30	5.46 4.87 3.05 2.30 2.30 4.01 4.01 4.01 16.63 3.54 4.01 16.63 5.16 5.16 5.16 5.16 5.16 5.16 5.16 5.16	+0.66 +0.66 +0.67 -0.67 -0.67 -1.70 -1.70 +0.67 -1.70 +0.67 -1.70 +0.67 -1.70 +1.70	1. 23 1. 20 0. 97 0. 58 6. 53 6. 54 6. 6. 6. 72 6. 6. 6. 72 6. 6. 72 6. 6. 72 6. 6. 72 6. 6. 72 6. 6. 72 6. 6. 72 6. 6. 72 6. 6. 72	000000000000000000000000000000000000000	12 17 17 14 19 14 19 19 19 19 19 19 19 19 19 19 19 19 19	14 9 9 10 10 10 11 10 10 11 15 9 11 1 1 15 15 15 15 15 15 15 15 15 15 15	1 13 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	144 144 144 144 144 144 144 144 144 144	se	Win, B. Gillisens, Henry C. Savarge.  H. K. Gilbert. Pee Dee Krepriment Sta. Maner B. Robert. Mrs. Elen Scott. Alden F. Schell. Rosa R. Davis. C. S. Fisheries Station. Miss E. P. Ravenel. Floyd C. Martin. E. D. Fields, Jr. Clemson Coast Exp. Sta. W. Hampton Ramsey W. G. Hitson.  Savar S. Head-P. Mtn. Co. Henry A. Brawn. Henry A. Brawn. Henry A. Brawn. Lock Farls. George V. Chap. Spartan V. Water Works. Henry A. Brawn. Uson E. F. H. H. Calhoun. U. S. Welther Barean. Veroal Elver Power Co. L. S. W. B. Accidental States L. P. S. Welther Barean. Veroal Elver Power Co. L. S. W. B. Accidental States L. P. S. Welther Barean. W. M. A. Cadhoun. L. M. Cadhoun. M. M. Cadhoun. L. Marvin Bowers.
Health Springs Hogback Mounta Kershaw Landrina Lairtea Mountain Newberry Univers Satua Santuck Spartanburg Trouton Walladla Winnsborr Windrap College Division means	Innesser, Innesser, Greenville, Kershaw Kershaw Kershaw Laurens Newberry Newberry Anderson Curion Spartanburg Edgened Ocenee Pairited Vork s and		3025 500 1063 589 711 502 856 536 512 875 620 1061 515 690	3 13 14 11 36 25 27 36 52 96 29 29	72. 6 - 70. 9 - 72. 2 - 70. 7 - 72. 4 - 71. 4 - 71. 7 - 68. 8 - 74. 8 - 69. 4 - 72. 4 - 71. 2 - 71. 5	-3.1 -1.6 -2.1 -1.6 -2.2 -1.6 -4.2 -2.7 -3.2 -1.4 -3.5 -0.5 -2.2 -1.3 -2.0 -1.7	87 84 94 92 94 95 90 94 98 97 92 95 95 97	† 7 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	43 46 47 41 44 45 44 45 45 45 45 45 47 48 89 89	20 20 20 20 20 20 20 20 20 20 20 20 20 2	30 36 6 6 33 1 14 28 31 35 35 35 1 29 1 37 37 37	1.77 1.07 1.07 1.07 1.26	4. 01 2 4. 01 2 5. 56 1 8. 99 16 0. 37 0. 61 6, 15 3. 46 3. 31 7. 02 7. 35 -8. 21 -6. 72 -0. 53 -5. 03 +3. 18	3, 70 2, 92 3, 28 0, 72 1, 04 1, 05 1, 05 3, 92 3, 07 1, 78 3, 25 4, 92 3, 40 2, 51 1, 05 10, 72	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12	8 6 10 10	7	23 11 9 12 13 7 10 14 12 14 12 14 10 8 6	Hine Ridge Forests Co.  olon W. Hamel.  R. Hartwell Wilds, D.D.S.  E. G. Hour.  S. Miss Alberts Sease. John H. Boxter. Joshin Y. Jones.  W. S. Crott.  be.  E. W. Jeter.  M. H. Daniel.  Mr. S. F. Long.  ne.  ne.  ne.  he.  tall complete reports are used in

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or defining means. Reference letters (e. b. c.), appearing in the table indicate number of days missing; for example, by one entry tube, the days missing, etc. It is not nother that the property of the control of the con

August, 1929.—Miscellaneous Data, page 29, relative humidity at Columbia, noon, should be 53 per cent; 8 p. in., should be 63 per cent, and means, noon, should be 68 per cent, and 8 p. m., should be 72 per cent. Florence No. 1, total rainy days, page 30, should be 8. Kershaw, prevailing wind direction, page 30, should be east. Kingstree, greatest 24-hour precipitation, page 30, should be 0.93. Winthrop College, minimum temperature, page 30, should be 55 on the 5th.

# Daily Precipitation for September, 1929.

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Florence 21	Pee Dee Lynches Santee Pee Dee					15		.0	1		1	. 84	Т.	.02 .	10		. 06	.27						02 1	10	35 .	18				4.01
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Except as otherwise ind	icated, observat	ions	are:	D'ettre:	ru Hv	mad.	a lute	-								j	1	i			]			-'	6			1.0	5	3.	76

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of servation. (S Precipitation measured in the norming; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather furean station; peccipitation included in the next following measurement. Isoparate dates of falls not recorded. T. Trace, or less than 0.01 included.

# COMPARATIVE DATA FOR SEPTEMBER.

	1			1				MIIV	E DAT	A FOR SEF	PTEMI	BER.						CHIEFE O.A	a mer	
Veac.		uiperati			itation.	Averas	days.	ber of	illing direc-		1	emperati	ire.	Precip	itation.	Averag	ze num days.	ber of	te ::	
	Меап.	Нідле	Lowest	Average.	Average days with u.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Preva wind	Year.	Mean.	lighest.	Lowest.	verage.	rerage rys with 01 inch	lear.	1y.	oudy.	a - i	
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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

M Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, or talmost always occurs.

WBO, Raleigh, 10-25-29-900

# ·CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

OL. XXXII. COLUMBIA, S. C., OCTOBER, 1929.

No. 10

#### GENERAL SUMMARY.

The advance of a tropical storm from the east Gulf north-astward over the southeastern States about October faces at-ended by excessive rains and destructive winds in the Predict nont districts, followed by damaging floods in most streams, rich record-breaking flood crests in the Savannah River at Auusta. The rainfall was so abundant that the monthly average or the Section exceeded all previous October averages. The total osses from storm stress and floods approximated \$3,828,585, nd this estimate is rather under than over the damage, which rill probably never be known. Of this amount, about \$1,800,000 epresented crop damage. The principal losses occurred in the avanual Basin and the western and northern counties, as inicated by the two charts on this page. The temperature veraged considerably below normal.

General farming operations were suspended in extensive reas of the northern and western counties during the first ten lays, incident to soggy uplands and flooded lowlands. These onditions were followed by practically ideal weather, and rinter cereal plowing and planting proceeded satisfactorily. Total Precipitation, Period. Sept. 30 to October 2, 1929, Inclusive. with germination improved by rains later in the month. Cotton opened rapidly, and ginning was active. Much time was given a housing late crops. Fall gardens and truck maintained generally good growing condition.

# TEMPERATURE.

The monthly mean for the Section, determined from reouts of 39 stations, was 61.1°, or 2.5° below the normal. The nighest temperature was 88° at Beaufort (near) on the 5th. The warm periods were short and rather ill-defined. The lowest emperature was 32° at Santuck on the 26th. The cool periods were from the 1st to 5th, 5th to 11th, and 22d to 26th, inclu-sive, with daily mean temperatures 5° to 11° below normal. Light frosts were quite general from the 2°d to the 26th, and a tilling frost occurred at Santuck on the 26th.

## PRECIPITATION.

The average for the Section, 49 stations reporting, was 7.81 inches, or 4.27 inches above the normal, and the highest October average of record. Rainfall occurred in four periods. and the bulk of precipitation occurred during the first few days The amounts were very badly distributed, with 10 to nearly 13 nobes in an extensive area of the Picdmont, tapering off to less than 1 inch along the lower coast. The greatest local monthly unount was 12.69 inches at Greenwood: least local monthly umount, 0.88 inch at Beaufort (near). The greatest 24 hour umount at any station was 7.15 inches at Saluda (in the Sec-ion proper) and also 9.82 inches at Augusta, Ga., on September 30. October 1. The average number of rainy days was 20% above normal.

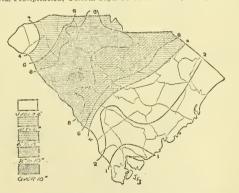
Tornado.-A small tornado dipped in a short path near Blockville on October 1. One person was killed, and several were injured. The property loss has been estimated at about \$3,500.

The prevailing winds were from the northeast. The average hourly velocity, determined from 9 ancmometer records, was

7.5 miles per hour. The highest velocity for any 5-minute period was 40 miles per hour from the southeast at Savannah, Ga., on the 1st, and in the Section proper, 39 miles per hour from the northeast at Due West on the same date.

Total Precipitation, Period, September 22 to 28, 1929, Inclusive.





MISCELLANEOUS DATA FOR OCTOBER, 1929.

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Stations.	Barometer. level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns
Ashaville, N. C., Augusta, Ga., Charleston, S. C., Charlotte, N. C., Columbia, S. C., Due West, S. C., Greenville, S. C., Savannah, Ga., Wilmington, N. C., Means and ex-)	30, 10 30, 63 -30, 05 20 08 30, 07 30, 10 30, 08 30, 04 30, 07	58. 2 64. 2 67. 0 59. ‡ 62. 2 59. 2 59. 4 67. 5 64. 1	72 - 84 - .83 - 78 - 82 - 82 - 80 - 84 - 84 -	34 89 47 .89 41 35 41 46 45	4.75 11.06 1.71 6.47 5.62 8.78 7.58 0.95 5.81	2. 16 9.82 0.92 3. 42 3. 80 6. 53 3. 78 0. 89 5. 31	7 2 5.0 10.4 4.4 6.4 8.6 8.3 10.8 6.2 7.5	nw. ne. ne. ne. ne. ne. ne.	86 80 78 78 82 83 76 80 80	58 51 60 50 52 55 61 59 55	69 70 75 63 65 66 72 75	58 71 75 72 67 63 69 62 73
tremes	30.07	61.8	81	34	0.86	1 9 82	1 7.0	ne.	1.80	2187	0.3	0.7

					Clin	atol	ogica	l Dat	ta for	Oct	ober,	1929.								
			record,		Temper	ature,	in de	grees l	Fahr.		Preei	pitation	in in	ches.	Nun	iber c	of da	ays.	tion	
Stations.	Counties.	Elevation, feet.	Length of re	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Г)яге.	Greatest duily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.01 in. or more)	Clear.	Partiy cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Eastern Portion.																				
Beaufort (near) *** Biack ville Charleston Cheraw	Beaufort. Barnwell. Charleston Chesterfield	21 296 48 144	48 45 58 47	68. 2 64. 4 67. 0 61. 4	+0.4 -0.5 -0.8 -0.9	88 86 83 88	5 7 1 7	47 39 47 38	†25 26 25 26	31 41 24 39	0.88 2.72 1.71 9.07	$     \begin{array}{r}       -2.40 \\       -0.03 \\       -1.56 \\       +6.31     \end{array} $	0, 85 1, 32 0, 92 5, 13	0 0 0 0	2 3 4 6	19 20 16	9 5 10	3 6 5	e, ne.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau Roland D. Powe.
Conway Dariington Ethngham Ferguson‡‡	Horry Darlington Florence Orangeburg	25 175 106 63	39 34 38 43	64. 2 62. 0 63. 0	-0.6 -1.6 -i.1	85 84  86	† 7 7	40 37 34	26 26 26	38 39 36	3.97 6.18 4.98 4.03	+0.78 +3.24 +2.05 +1.07	1.60 3.16 2.33 1.60	0 0 0	7 6 5 6		3	7 10	sw.	Paul Quattlebanm, D. C. McCall, Wm. B. Gillespie, Henry C. Savage.
Florence 1 Florence 2†† Garnett Georgetown Kingstree	Florence	136 136 82 18 54	47 14 11 36 47	62.6 65.3 64.2	-1.6 -2.7 -0.2	86 186 85		38 <sub>b37</sub> 37	26 26	38 644 43	3. 43 3. 71 3. 54 3. 61	+0.46 +0.74 +1.06 +0.85	1.38 1.61 2.20	0 0 0	8 4 7 6	22 25 17 23	2 3 12 	7 3 2	ne. sw. 	II. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Brooklyn Cooperage Co. Mrs. Ellen Scott.
Marion Mars Bluff. Orangeburg Pinopolis Rimini	Marion Florence Orangeburg Berkeley Sumter	68 92 264 54 97	4 6 13 82 15	h63.4	-1.0	<sup>h</sup> 86 85	8	<sup>h</sup> 35	26 26	38	4.83 4.87 2.76	+0.74	1.63 2.28 0.95	0 0 0	5 6 7 	15	8	8	w.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravénel. Floyd C. Martiu.
Society Hill Summerville Sumter Wedgefield Yemassee	Darlington Dorchester Sumter Sumter Hampton	192 75 169 249 24	38 31 5 39 40	°61.3 65.2 61.0 65.0	-1.3 -0.5 -2.9 -0.6	*85 87 82 86	6 8 †12 † 7	*87 87 87 39 86	718 26 26 26 26 26	*37 39 35 43	6.64 2.49 5.50 1.74	+3.76 -0.84 +2.79 -1.09	3.30 0.85 2.50 0.66	0 0	6 5  5	20 20 25 19	2 4 3 3	9 7	n. e. w.	E. D. Fields, Ir. Clemson Coast Exp. Sta. Sumter Water Dept. W. Hampton Ramsey W. C. Huison.
Division means and	extremes			68.9	-0.9	88	5	85	26	44	4.05	+1.07	5. 13	0	6	20	5	6	ne.	W. G. Milson.
Western Partion.																	1			
Aiken Anderson Blairs Cæsars Head‡‡ Calhonn Falls Camden	Aiken Auderson Fairfield Greenville Abbeville Kershaw	527 764 293 3118 508 222	67 36 24 5 80 79	63.6 59.8 53.6 60.4 61.4	-0.3 -3.3 	88 84 75 83 82	18 13 18 18 6	43 38 33 37 40	†28 25 †28 26 †23	32 39  28 37 31	9. 45 7. 98 8. 47 10. 73 12. 17 11. 80	+6.78 +5.26 +5.98 +9.37 +8.08	5. 12 4. 19 4. 00 5. 20 5. 60 5. 20	0 0 0 0 0	5 6 5 8 6 6	19 18  12 16	2 3 9 4	10 10 10 11	ne. e. w.	Frank B. McCoy. D. H. Russell. Sarah L. Owens. Casar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba Chappells Cherokee (near) Chester Clemson College Columbia	York Newberry Spartanburg Chester Oconee Richland	562 402 758 487 850 351	23 24 1 7 37 43	*57.1 60.1 62.2	-1.5 -2.1	80 87 82	7 17 7	*32 33 41	26 26 26	*41 -48 -38	10. 24 9. 66 8. 36 6. 01 5. 62	+6,92 +7,15 	4. 45 1. 95 3. 13 3. 02 3. 30	0 0 0  0	6 8 6  7 5	22 20 17	1 5 6	6	nw.	James C. Faris. William Spearman. Spartanburg Water Works. J. C. Cornwell. Prof. F. H. H. Calhoun. U. S. Weather Burean.
Crescent. Due West. Edgeffeld. Gaston Shoals 11. Greenyille. Greenwood.	Spartanburg Abbeyille Edgelield Cherokee Greenville Greenwood	680 711 680 1039 671	3 15 15 26 45 45	59. 2 59. 4 59. 8	-2.9 -0.8 -2.2	82 80 83	17 17 18	35 41 89	25 28 25	32	11. 39 8. 78 9. 71 9. 92 7. 58 12. 69	+6.95 +2.20 +6.96 +4.44 +9.86	3.53 6.53 5.24 6.34 3.78 5.60	0 0 0 0 0	10 5 3 8 9 8	15	 7  8 0		ne ne.	Broad River Power Co. U. S. W. B. Aerological Sta. Agent C. and W. C. Ry. Southern Public Utilities. U. S. Wenther Bureau. M. M. Calhoun.
Henth Springs Hogback Mountain Kershaw Landrum Laurens	Lancaster Greenville Kershaw Spartanburg Laurens	568 8025 500 1068 589	27 3 13 14 11	59. 0 60. 8 59. 4 60. 4	-3.4 -3.2 -2.9 -2.0	81 83 79 83	7 † 7 † 7	38 39 36 36	†25 †25 28 26	39 40 85 48	9. 96 9. 70 9. 94	+6.36 +7.85 +5.89 +6.84	5. 25 3. 92 4. 14 5. 10	0 0 0 0	6  7 7 9	20 17 21 22	4 3 3 4	7 11 7 5	e. nw. e.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Hamet. R. Hartwell Wilds, D.D.S. L. G. Roff.
Little Mountain Newberry†† Pelzer Saluda Suntuck	Newberry Newberry Anderson Saluda Union	711 502 850 536 512	36 25 25 27 86	57. 8 60. 2 58. 9 58. 4	-6.2 -3.2 -4.4 -3.9	88 82 79 83	†17 †7 †17 6	35 35 35 35 32	24 26 †25 26	43 88 40 47	8.33 11.44 8.89 11.79 9.39	+5,52 +8,94 +5,47 +9,01 +6,28	6.55 7.40 3.60 7.15 5.66	0 0 0 0	4 8 8 9 7	21	2 3 11 6	8 7  6 5	w. w. ne. e.	Miss Alberta Sease, John H. Baxter, Joshua Y. Jones, W. S. Crout, E. W. Jeter,
Spartanburg Trenton Walhalla Winnsboro Winthrop College †‡	Spartauburg Edgefield Oconee Fairfield York	690	52 36 29 35 29	56.9 64.0 58.2 *60.0 59.6	-4.1 -0.6 -2.4 -2.4 -2.8	79 87 84 *82 83	17 4 17 † 7 7	34 43 33 *57 36	26 23 26 25 24	39 34 42 *40 87	11.50 9.69 5.18 9.03 8.49	+8.96 +6.73 +1.82 +6.06 +5.80	6.93 5.66 2.73 4.12 4.00	0 0 0 0	5 9 7 4	28 16 18 18 21	4 8 4 6 7	4 7 9 7 3	e. ne. ne.	M. H. Daniel. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
Division means and Section means and				59. 6 61. 1	-3.0 -2.5	87 88	17 5	32 32	26 26	48 48	9. 38 7. 31	-6.35 +4.27	7.15 7.15	0	6	20 18	5	6	ne.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference betters (4, 9, 0), appearing in the table fudicine number of days missing; for example, by represents two days missing, etc. 4 Also on other date. It Received to other to be included in means and summaries. \*\* Temperature data are from observed readings of the day bulb; more second from observed readings. \*\* Proceedings of the day bulb; more second from observed readings. \*\* Proceedings of the day bulb; more second from observed readings. \*\* Proceedings of the day bulb; more second from observed readings. \*\* Proceedings of the day bulb in the day of Cosar's Head, Greenville; of Beaufort (near), Burton. \*\* Observations taken from dry bulb thermometer at 7 a. m., 3 p. m. and 10 p. m. \*\* Precipitation is less than 0.01 inch of rain or method show

#### RIVER CONDITIONS.

and October 1st-2d, were followed by unusually high floods in

about \$257,000 In the Santee River System, the property loss The hurricane rains, culminating about September 26-27th approximated \$334,735, and the value of movable property saved by warnings has been estimated at about \$155,315. In and October 18-2d, were followed by unusually high hoods in most streams, especially in the Savannah River, where previous high-water marks were overtopped twice in one week. In the Savannah River System, should approximated \$2,000.000, Pee Dee System, floods damaged property to the extent of about \$24,000, and movable property saved by warnings was valued at \$4,000,000.

#### Daily Precipitation for October, 1929.

		_		_		-	-			-										-	-					-							
	Drainage-														1	)ау с	of mo	onth															ot.
Stations.	basins.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	21	25	26	27	28	29	30	81	Tor
Eastern Portion.																								17.						q.	02		0.88
eaufort(near)	Coast																					70 1	.20							4.	Т.		2.72
nekville	Edisto	.20	1.32			T.																0.1	.01							Ť.	T.		1.71
harleston ***	Coast	. 78	. 01			T.	T					1.		1.								43	.21								. 23		9.07
hern will	Waccamaw	5. 13	2.82				.20															. 30 1	. 60							T	. 06	. 23	8.97
onnay III																											1				. 49		6, 18
arlington Il	Pee Dee	1.74	3.16			.03	T.																. 47									Tr.	4, 98
dingium	Lynches Suntee	2.33	1.16																			.07	. 96 32								. 54	. 09	4. 03
ergusoa	Sautee	1. 60	1.41																			.27	.66								. 09		3, 43
lorence [ ]	Pee Deedo	. 9ti	1,38			. 03	. 02															. 38	.70										8.71
lorence 2	Savannah	1.02	1.01			10	07						T									2.20	. 16									.01	3.54
armett	Sievitiffithi	.01	. 10			. 10	.01																										
eorgetown	Coast																						. 93 .						***		. 15		3.61
lingstree III	Black Pec Dec do	1.40	. 75				. 05															1.62.1	. 63							. 14	T	T.	4.83
larion	Pec Dec	1.00	3.35			· cm																10 1	. 29								. 05		4.87
lars Bluff	do	1. 10	2. 28			0.2	. 00	Tr.														. 08	. 67 .							T.	. 12	. 07	2.76
rangeburg	Cooper	. 500	01			.00		1																									
																															CE	. 16	4,03
timini !!	Santee	1,82	.88																			-52	.56 .								42		6, 64
ociety Hill III	Pee Dee Ashley	1.85	53.30				. 18												• • • • •														2.49
ammerville	Ashley	.71	l - 46																			. 34	. 87							. 46			5.50
umter	Wateree																																
l'edgefiela enn seelij	Ashepoo	2. 30	: 11				05															. 53	.27 .								. 05	.07	1.74
Hestern Parlion.																																	9, 45
Iket	Kdisto	5, 12	3. 5:	3		. 17	. 12														• • • •	. 51								. 69		.06	7, 98
indesson .	Savnmah	4 19	9 .8			. 22																2. 04	0.1										8, 47
datr-	Broad	13. 29	5 4. 00			.10																4 10	99							. 40	.50	. 15	10.73
ausm s Hend	Saluda Savannah	5. 20	15 60																														12. 17
alhoan Falls	Wateree	1 56	15.00			. 14	20															.23	.90 .								.68		11.80
	Wateres	1. 00	0. 20																			. 30	1 10	- 1							20		10.24
ntun ba III	Curawba	4.10	4.46	5		.06												• • • •		• • • • •		. 12	1. 18 .				• • • • •				. 01	.01	9,66
Impoetls III	Saluda	1.9	5 6, 2	3		.21	. 07															1.86	1.00.							. 57	. 15	. 17	8.36
herokee (near)	Brond																																
hester. lenson College	Savanuuh Cougaree						00															1.91	.08.							. 25	.04	45	6, 01 5, 62
Johnnbia ***	Cougaree	1 90	2 . 0:			. 12																. 76	Т.						***	.24	T.	0.5	11.39
rescent	Enorce	3 5	3.3.5	3	08																1.26	2.70	.01 .				• • • •	• • • •	. 02	. 15	.08	.00	11.00
		1				ı .																2 12	0.9						T.	T	T.	. 13	8,78
one West***	Savannah	6. 2	7			. 24																	1 45										9.71
idgefield ## aston Shonls ##	Sayannah	3.0	25.2	4			1															. 30									.08	. 05	9.92
reenville ***	Broad	2. 10	U 6, 3	4 -		1.10	T.															d.	9 94	. 03					. 05	6 . IU	. 03	. 14	7.58
reenwood !!!	do	3 4	25.6			. 26	.0	5														95	2.36 .								.02	.03	12. 69 8. 88
leath Springs,	Wateree	5.2	5 . 7	0		. 15		J	1													. 18	2.00 .							.00			0.00
logback Mountain	Broad																																
Kerstin w	7	1				0.			1													. 25	1. 32								. 49		9, 96
andrun	Brond																					2.94	. 36							. 17	. 11	.42	9.70
aureus	Saluda					. 16	.0:	2														1.26	. 10 .							.01	.06	.04	9.94
ittle Mountain	Saluda					33	. 03	5																					· ir	10		0.5	11. 44
lewberry	Saluda	7.4	02.5	1		. 25	5	T.														1.10	3 95						1.	12	.04	.00	8,89
elzer III	do																					1.34	. 11	.04						.04	.02	.04	
aluda	do	7. 1	5,3.3	6		. 19	1 . 13	3														. 10		• • •									
antuck	Brond	E 01	000	1	1/	1					1							Ī				1.05	.09						T.	.11	.03		9.89
partanburg	do				1	1 12	2															. 40	1.12							·m·			11.50 9.69
rent on	Edisto	2. 3:	35,6	6	1	. 45	i														m	1.15							T.	T.	.09	.09	
Vumalla	Saymunh	2.73	31 . 3	n		. 19	0.05	2													T.	1.50	1 05						1	. 22	92	.05	9,03
Vinusboro III	Broad	2. 5	24.1	2				2														. 19	1.65							1111	. 18	1	8.49
Vinthrop College	Cntawbu	4.0	0.2.8	0																1			1.01				,		1	1		1	

Except as otherwise indicated, observations are generally made into the afternoon, near smuset, and precipitation recorded is for the 21 hours ending at the time of observation. Ill Precipitation measured in the marriag; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the 24-hour period, midnight to midnight. \* Precipitation included in the next following measurement. IS parate dates of falls not recorded. T. Trace, or less than 0.01 inch. \*\*COMPARATIVE DATA FOR OCTOBER.

						CC	MPAI	RATIV	E DAT	A FOR OC	TOBE	R.							
	Те	mperatu	re.	Precip	itation.	Averag	e num days.	ber of	iling direc- m.		Ter	mperatu	re.	Precipi		Averag	e num days.	ber of	ling airec- m
Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly eloudy.	Cloudy.	Prevail wind di	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail: wind di
1887 1888 1889 1890 1890 1890 1891 1891 1891 1891 1891 1891 1895 1896 1990	61. 4 59. 3 60. 8 63. 0 60. 2 63. 8 64. 4 64. 2 61. 3 65. 8 62. 4 63. 2 62. 4 64. 2 62. 4 64. 2 62. 4 64. 2 61. 9 61. 2 62. 4 64. 2 61. 9 61. 2 61. 9	91 88 88 90 92 89 96 96 95 91 96 97 96 93 98 93 98 99 91 89 96	30 31 27 22 28 27 26 33 28 35 28 34 33 29 30 25 26 29 24 28 35 27	5. 96 4. 18 1. 65 4. 06 1. 63 0. 60 4. 92 4. 95 1. 15 1. 41 3. 23 3. 82 5. 00 8. 65 0. 89 4. 40 1. 10 1. 97 3. 69 0. 73 4. 22 2. 43	5 5 3 4 4 5 9 9 3 7 7 5 3 3 6 6 7 7 3 6	18 20 20 15 14 14 14 13 3 22 19 18 8 23 15 14 19 23	7 66 77 8 8 8 8 77 76 5 5 6 6 6 7 7 6 5 5	6 5 4 8 9 10 111 3 7 7 3 10 10 11 5 6	n. sw. n	1910 1911 1912 1912 1913 1914 1915 1916 1917 1918 1929 1923 1923 1924 1925 1925 1927 1928 1928 1928 1929 Period	66. 5 67. 5 65. 0 62. 5 64. 7 67. 0 64. 0 59. 3 73. 7 64. 1 62. 6 64. 5 62. 9 62. 2 63. 5 65. 8 66. 4 61. 1	109 99 94 95 92 93 92 90 93 101 92 90 94 90 89 98 98 98 98 98 98	22 37 32 28 26 27 31 22 33 44 25 27 31 29 28 26 32 33 28 26 31 22 33 34 44 25 27 31 29 28 27 31 27 31 27 31 28 28 31 31 31 31 31 31 31 31 31 31 31 31 31	4. 39 5. 89 2. 21 3. 56 3. 44 4. 95 5. 2. 54 1. 79 5. 57 1. 14 1. 50 2. 93 1. 44 3. 25 1. 91 7. 31	6 8 5 6 6 8 8 5 4 5 5 2 2 4 8 4 2 2 8 5 4 5 6 6 5	20 12 18 19 13 15 16 23 15 13 24 21 18 28 28 17 20 17 18	7 9 4 4 4 4 4 4 4 4 5 6 6 8 3 7 7 7 6 8 8 5 6	4 10 9 6 11 11 8 8 8 8 8 7 5 6 8 7	ne.

							Da	ily	Ten	ipei	rati	ires	for	00	tob	er,	192	9.														
Stations.	1	2	8	4	ō	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	30	31	Mean
Eastern Portion.				- 1																												
Beaufort(near)   Maximum	82 73	79 65	75 55	85 65	88 67	84 61	87 60	81 66	73	72 55	71 53	79 57	78 63	84 62	76	75	87 62	75	77 59	77 60	78 68	73 57	74	65 52		78 47	78 53	80		77 62	79	77.4
Blackville ) Maximum	79	78 56	74 51	77 49	72 59	81 59	86 60	77 61	60: 72 55	72 51	53 73 49	79	82	84 55	75	81	82 52	75 55	76 52 73	80 <sub>1</sub> 56 <sub>1</sub>	80 64	66	49 72	60	60	75	80	69	62 64 59	65	80	77. 4 58. 9 75. 5 58. 4 74. 2 59. 7 73. 1
Charleston Maximum	71 83 70	77	74	75 57	72 59 75 66	79 63	80 64	79	70 61	69	73	76 60	79 65	- 81	73	76 54	62	69 60	73 61	76 63	76	55 70 55	44 71 51	45 68		70	75	70 57 70	68 64 60	55 76 64 66	75 65	74.2
Cheraw似 ) Maximum ( Minimum	70 70 62	61 76 55	73 49	74 48	69 57	78 58	- 83	7.1	69	57 69 45	76		82 53 81	62 79 53	72 50	80 41	80 55	70 44	75	79	70 74 58	63 60	51 70 42	54 69 44	66	70 46 72 86 74	75 52 78 40	70	60	66	79	78. 1
touway Maximum	62 83 71 74	80	7.3	76 47	69 57 75 56	88 59	57 85 58	76	48 71 52	71 50 71	76 46 75 49 72 46	50 52	81 56	85 85	74 54	78 44 79	51	73 48	75 41 75 46	48 80 55	53 72 62	72 60	71 44 69	67	64		76	76 45	65	53 74	78	49. 8 75. 6
Darlington \$\% \ Maximum \ Minimum	74 67	58 76 55	73 50	76 42	68 51	80 58	58 84 57	76 61	71 49	71 46	72 46	80 49	84	84 52	74 50	79 40	52 52	74 45	79 41	83 48	70 56	60 56	69 48	48 68 45	65	73 87	76 46 78 40	71 44	56 61 58	57 68 53	79 67 80 59 75 67 79 56 79 56	52.8 74.3 49.7
Ferguson // / Maximum	85 70	77	7.4	74	82	84	86	80	74 63	74	75	83	85	79	76	78 51	85	75	80	83	81	61	70 39	70	60	70				77 55		
A Maximum	83 70	77 57 72 57	51 76 49	52 76 46	55 68 55 77	57 78 60	61 86	60 74 62	69	52 70 50:	49 70	78 51	51 82	79 66 88 52	70	77 42	45 82 56 86	51 70	44 76 42	61 80	64 72 63	56 63	71 41	45 69	40 64	70	75	48 78	55 62	55 71	81 59 78 56	73.1 52.8 73.9 51.4
Garnett / Minimum		78 57	7.4 52	78 48	58 58	84 58	56 58 86 63	85 60	51		76 48 75 49	79 52	83	54 56	76 52 70 51 78 56	50 42	86 47	47 75 51	81 54	51 82 51	84 64	57 69 58	68	45 72 43	40 65 40	38 74 37	44 80 43	44 75 47	62 57 70 47	71 55 77 57	83 63	51.4 <sup>1-</sup> 78.0 <sup>1-</sup> 52.6
Georgetown ! Maximum ! Minimum																								40			43	-47	47		63	*52.6
Kingstree   Maximum	83 71	80 57	75 51	77 47 76	74 57	81 59	85 59	81 64	71 53	72 50	73 49	81 52	81 56	83 53	76 58	79 41	84	79 50	74 42	81 54	75 64	71 58	71 45	67 45	65 42	73 37	79	72	65	78	75	76. 2 52. 2
Marion Maximum	75 68	57 76 56	72	76 44	69 54	82 58	86 55	76 60	58 70 48	50 71 46	72 46	81 59	83	83 48	76 58 74 50	80 39	53 83 52									78 35	77	72 45 75 42	46 62 54	57 74 54	75 64 81 59	176.1 150.7
(Maximum	. 81		76	75	76	82 59	81	85		70	71	79	82	82	77	79	81	72	79	81	82	75 56	70	68	63	73			66			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	71	77 56 75 55 78	52 79 49	50 76 45	59 68 47 72	59 85 58	60	68 75	75 54 69	51 65	49 80	52 78	57 81	55 80 52 83	77 54	51	55 79	53 74	50 76 40	55 80	64 71		46	48 69	43 63	40 73	78 43 79 89	74 48 71	55) 60)	65 55 70	77 60 77 53	76.0 58.7 *74.0 *48.6
Sommerville §§   Minimum Summerville §§   Maximum	69 84	55 7×	76	45 78 47	47 72	58 83 59	56 87	79	47 78 57	46 75	45 77 50	48 85	53 83	52 83	49 74 54	80	79	87 81	82	48 82	81	57	76 42	72	89 61 40	37. 75	80	41 74	54 61	52 79	81	°48. 6 77. 3 53. 0
	71	58	52	47	54		60	61			50	54	59	54	54	41	49	54	51 81 69	88 80	66 73 62	71	£ (19)	46 62	63	37 74 37 64	45 77 41	46 71 44	52 62 55	70 52 79 59 67 54	61 78	53. 0
Sumter	80 66	78	74 46	72 48	70	71 44	73 45	71 50	70	62 48	78	82		80 51	82	80	70 49	74 50	78 45	52 80 67	75 60	56 70 55	42 73 42	66 42	40 67 40	64	68	67	65 63	65	61 72 59	72.6
Yemassee ) Maximum Minimum	83 71	78 55 77 57	73 52	77	75 56	84 58	86 63	82 62	52 74 56	72 52	70 49 74 50	48 79 54	50 82 60	84 56	52 77 55	45 78 43	86 51	78 55	80 54	81	84 65	70 55	71: 41	67 45	64 42	74 89	68 48 79 45	67 45 75 47	68 55 67 59	54 58 58	81 64	49.5 77.2 53.8
	1 "	01	02	40	ən	90	6.3	02	011	U-	011	09	nu	50	00	30	01	00	01	91)	60	59	-91	40	42	av.	40	47	59	98	6-9	55.8
Western Portion.																													-			
Alken   Maximum   Minimum	74 63	73 54	73 48	72 47 71	70 57 63	83 59 71	81 61	79 60	78 58	69 50	49	75 51		80 55	76 53	76 49	81 53 84	80 54	74 51	76 62	78 58	75 51	65 65	66 46	63	72 57	76 46	74 50	67	60	78	74.0 63.1 69.3
Anderson   Maximum   Minimum	70 59	54 72 56	70 45	71	63	71 55	80 63	78	65 50	65 48	65 46	72 48	56 78 55	55 76 54	76 53 78 48	76 45	84 56	71	54 72 49	72 57	70 59	64 50	65	61	43 64 38 60	57 71 89	46 75 45	68 52	58,	52 53 47	52 59 52 50	
Caesar's Head / Maximum	74 53	55 48	63 87	65 41	64		62 56	72 53	66 45	60	57 38	56 41	40	74 56	70 49	65 55	72 53 83	75 50	65 50	57 49	64 50 65	59	49 33	58 88	60	46	45 58 43	67 44	52	601	50,	50. 2 61. 7 * 45. 4
Calham Falls/ Maximum	68	55 48 78 57	71	70	47 63 45	56 55 77 46;	82 57 80	72 57	71 50 69	69 48 67	68 47	75 48	83 49	79 53	50	79 42	83 43	73 49	79 51	77 52	65 58	45 56 56	68 40 60	65 41	54 67 46	34 74 37	78 38	70 46	56 56 49 52 41 57 52 62	42 56 48	48 75 49	71.8 48.9
Camden of Maximum	76	78 65 70 58	75 66	45 79 65	71 58	82 55	80 61 80	61 72 53 72 57 72 61 69	49	67 48 64	68 47 70 47 65 45	48 74 50 72 48	54 79 47	58 77 50	72 50	78	43 79 49 78	70 49	51 72 44 73	58 72	58 68 65	56 59 50	40	63 40	61 41	65	43 78 88 71 40 75	70 44	(12) 45.	61 50	7:; 51	71.5 51.3
Cherokee (neer)   Maximum	61 59	70 58	69 42	72 44	53 55	73 50	80 53	69 55	65 42	64 41	65 45	72 43	79 47	50	69 37	79 37	50	49 71 87		72 45	68 55	67 51	40 65 36	63 85	64 38	40 78 82	75 84	68 40	45 59 47	53 46	65 51	69.2 43.5
Chester Maximum												. 3																				
Clemson College / Marimum / Marimum	76 61	76 54	71 42	74 40	68 56	7.4 56	82 55	7 I 56	68 51	69 48	68 48	76 46	81 50	80 50	76 40	80 39	87 42 81	78 46	74	74 52	60 60	66	68	64	65 34	77	76 85	79 46	66 51	59 49	68	72. 9 47. 8 72. 1 52. 4 69. 8
Columbia / Minimum	71 54	75 54	70	73 51	65 59	56 78 58	82 60	73 61	68 52	69	69	46 76 51 72	81 56	79 56	71 53	78 47 76	57	71 52	76	77	74 63	65	68	64 45	62	74	78 46	64 52	60 54	60	76 57	72.1
Due West Maximum	69 59	75 54 74 52	68	71 45	62	7.4	80	69 57	66 50	65 47 63	65	72 49	78 55 79	76 58	71 50	76 45	82 58 80	70 48	73 50	73 57	7-1 60	£2	45 04 40	60 41	61	69	74	69	58 47 55	53 52 47	54 76 57 71 51	69.8
Greenville / Minimum	67 58	70 56	69 49	70 48	56 62 55	57 72 54	57 79 60	68 58	61 51	63 47	48 63 47	49 70 49	79 58	75 59	71 50	45 75 50	58	70 49	70 50	69 58	69 58	61 46	(2 41	60	62 43	37 79 42	74 45	67 55	75 46	47 53 46	66 52	49. 2 67. 9 50. 9
( Maximum	79	66	74	69	78 42	64	79 50	81	74	70 44		69	79	80	80	73	76	83	75	77		77 51		65	62	63			71 52	57	54	
Maximum .	65 62	57 73 52	46 69	72	65	55 74 55	56 81 58	58 77 61	74 49 65	66	70 45 65 44	46 75 47	48 78 46	55 74 45	44 75 46	43 76 44	76 43 80 57	45 75 41	75 45 73 42	76 41	77 55 70 50	51 68 51	55 41 65 43	42 61 42	89 62 88	39 70 38	71 89 76 44	75 50 67 50	52 55 52	48 55 47	48 76 52	71.6 48.0 70.0
Maximum (Maximum	60		46	46	56 				46	44	44		46	40	410				42	41											97,	47.9
Kershaw Minimum	72 65	74 58	69 46	71	67	77 55	81	74	68	69 43	69 45	82 38	77 54 79	79 48	71	79 42	81 55	72 42	76	80 52	70 60	68	67	65 41	65 89 62	79 89	79 43 78	70	62 54	58 50	79 50	72.7 49.0
Landrum (Maximum	70 59	61 58	70 49	45 70 44	57 62 54	77 55 73 52	57 79 56	74 62 74 59	65 45	63 44	64 46	72 46	79 50,	76 -56	44 73 44	79 48	78 54	74 43	75 39	69 48	89 58	65 52	65 36	64	62	75 48	78 51	49 72 40	59 48	73 46	64 52	49. 0 70. 2 48. 6
( ) .	69	75 54		69	63 55	78 56	83	72 56	68	68	69	73 56		78	73	79	83 55	73 41		77 51	77 60		66	63	65 87	75 86	78	70	62 50	52		71.8
Laurens ) Maximum (Maximum ) Maximum (Maximum ) Maximum (Minimum)	59 60	59 75 52	72 47 70	43 75	69	56 77 53	55 82		54 70	46 66	46 70	56 72	80.	58 78 47 79 53 78 50	46 70	40 78	831	691	77 42 70 45 77 41 67	51 76 49	60 70	63 51 67	42 66	65	64	36 71	40 75	46 71 44	50 62	60	75 52 75 50 77 51 76 53	48.9 71.2
Newberry Minimum	57 71	52 76	45 71 41	45 73 42	53	53 79; 56	56 82	70 56 72 59 77 56	70 45 68	41 68 45	41 69	72 43 75 46	50	47 79	70 45 73 47 78 44 78	78 40 78	55 83 53	47 73 46	45 77	49 75	70 50 78 61	49 63 51 64	39 67	35 64 42	39 61 36	71 37 78 35	75 42 77 40	44 70 46	62 45 60	46 54	50 77	49.5
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Wiethrop College / Minimum	55	44	55	44	50	55	57	55	45	42	43	54	52	45	50	42	43	47	42	49	50	51	46	36	40	4()	35	45	48	45	57	47.3

Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

Instruments are read in the morning; the maximum temperature than read is charged to the pre-eding day, on which it almost always occurs.

WBO, Raleigh, 11-26-29-900

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol., XXXII. COLUMBIA, S. C., NOVEMBER, 1929.

### GENERAL SUMMARY.

Temperatures averaged somewhat above normal. There were two rather prolonged periods of abnormally warm weather tions in the central and western sections. Precipitation was much above normal, on the whole, with the greatest November average cloudiness of record.

Un seasonably high temperatures during most of the first winter cereal plowing and planting, and for germination of shocked. out- and rye, although outdoor work in extensisive areas of the for hern counties was hampered by wet soil and too much rain; amparatively little winter wheat had been sown by the close wer conditions permitted. The sweet potato harvest con- from the northwest at Savannah, Ga., on the 4th. ingled throughout the month, but all outdoor work, save chores me some hog killing, was suspended with the advent of the

#### PRESSURE.

The mean sea-level pressure, determined from reports of 9 egular Weather Bureau stations in and surrounding the Secsheville, N. C., on the 21st, and in the Section proper, 30.46 nches at Due West on the same date; the lowest pressure was

## TEMPERATURE.

The monthly mean for the Section, determined from reorts of 42 stations, was 53.7°, or 1.0° above the normal. The 6th, 12; 23d, 3; 29th, 2; 30th, 22. ighest temperature was 90° at Sumter on the 3d. The warm eriods were generally from the 1st to 4th, from the 11th to 15, 16; Walhalla, 6, 9; Solar: Due West, 10. Sth, and on the 27th and 28th, with daily mean temperatures

sign from 5° to 18° above normal. The lowest temperature

sign from 5° to 18° above normal. The lowest temperature

sign from 5° to 18° above normal. The lowest temperature

leston, 17: Cotumbia, 2, 14: Due West, 13, 17; Greenville,

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sign from 5° to 18° above normal. The cold residence normal residence normal residence normal residence normal res n the 5th and 6th, from the 20th to the 26th, and on the 29th ad 30th, with daily temperatures ranging from 5° to 30° bew normal. Killing frosts or freezing temperatures were fairly neral in the northern counties during the first week, and the ne of freezing temperatures advanced over the central counties the 23d, reaching the lower coast by the 30th.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 gular Weather Bureau stations in and surrounding the Seen, was as follows: 8 a.m., 85%: noon, 66%: 8 p. m., 75%.
1 highest percentages occurred along the coast and over the stern counties, and the lowest, over the northeastern counties.

# PRECIPITATION.

The average for the Section, 54 stations reporting, was 3.85 inches, or 1.56 inches above the normal. Precipitation occurred in four fairly well defined periods, but was generally light in the eastern section. The rainfall ranged from 3 to over No. 11 9 inches throughout the Piedmont and in small areas near the coast, while in a considerable area of the coastal plain the amounts were less than 2 inches. The greatest local monthly amount was 9.22 inches at Caesar's Head; least local monthly were two rather prolonged periods of abnormally warm weather amount, 1.20 at Pinopolis. The greatest amount during any and three short marked cold periods, the month closing with 24 hours was 2.48 inches at Georgetown on 22-23d. The record-breaking low temperatures for November at many staverage number of rainy days was 100% above normal. Snow flurries and sleet occurred at many northern stations on the 22d, and glaze storms or frozen rain occurred at a number of stations on the 22d and 23d.

Killed by Lightning .- On 19th, at 1 p. m., Lee Anderson, half of the month were favorable for growth of hardy truck, for colored, at his home in Fountain Inn; five persons were slightly

#### WIND.

The prevailing wind was from the northeast. The average of the month. Considerable cotton remained in the fields in 6.9 miles. The highest velocity for any 5-minute period was 27 hourly velocity, determined from 9 anemometer records, was he higher elevations, but picking and ginning proceeded when-miles per hour from the west at Greenville on the 27th and

# SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 autoec rd-breaking cold wave on the 30th. Woods were bare by matic records, was 142.2 hours, or 46% of the possible amount. The average number of clear days was 12; partly cloudy, 4, and cloudy, 14, as against normals of 17, 6, and 7 days, respectively.

#### RIVER CONDITIONS.

io , was 30.12 inches. The highest pressure was 30.52 inches at heavy rains culminating about the 4th, and again about the 18th in the upper Santee Basin. The Santee River was in 9 54 inches at Charlotte, N. C., on the 28th, and in the Section flood stage at Rimini on the 6th. The Pee Dee River at and moderate flood throughout the month, except somewhat below below Mars Bluff was rather high or in flood throughout the

#### MISCELLANEOUS PHENOMENA (dates).

Frost, Killing, or Freezing Temperatures. -5th, 3 stations;

Halos-Lunar: Charleston. 10, 11, 12, 13; Columbia, 14,

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Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage c sibie suns:
Asheville, N. C. Augusta, Ga. Charleston, S. C. Charlotte, N. G. Columbia, S. C. Due West, S. C. Greenville, S. C. Savannah, Ga. Wilmington, N. C. Means and ex-	30, 12 30, 12 30, 12 30, 13 30, 13 30, 14 30, 11 30, 12 30, 12	46. 6 57. 2 60 0 51. 7 55. 4 52. 1 51. 8 60. 4 57. 0	71 85 81 78 84 80 75 84 81	21 28 15 19 16 15 25 24	2. 43 4. 13 2. 00 4. 31 2. 06 5. 27 5. 50 1. 75 1. 63	0.88 1 39 0.97 1.79 0.65 2.02 1.06 1.31 0.77	8 3 4.7 9.0 4.6 5.8 7.5 6.9 10.1 5.6	se. nw. ne. s. ne. ne. ne.	87 85 82 86 84 86 83 88 86	68 58 65 66 59 66 70 66 72	76 71 77 73 69 75 76 82	39 42 60 52 40 37 40 52 48
tromes (	30, 12	54.6	85	4	3 23	2.02	6.9	ne.	85	66	75	46

#### Climatological Data for November, 1929.

					limat	ologic	al Da	ita fo	or N	oven	ber,	1929.								
			record.	1	empera	ture, i	n degre	es Fal	nr.		Precipi	tation.	in inc		Num	ber	of da		ection.	
Stations.	Counties.	Elevation, feet.	Length of rec years.	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest for "I hours.	Total snowfall, unmetted.	With precipit on (0.01 in. or more)	Clear.	Partly clouds.	Clouds.	Prevailing dire	Observers.
Eastern Portion.						1	1	1	1											Mrs. R. t. Fripp.
Beaufort (near);; Blackville Charleston Cheraw	Beaufort Barnwell Charleston Chesterfield	21 296 48 144	48 45 58 47	60.6 58.2 60.0 54.7	+1.9 +2.6 +1.9 +2.3	84 87 81 84	† 2 3 3 3	25 19 28 18	30 30 30 30	37 39 24 38	2.55 1.79 2.00 4.17	$^{+0.38}_{-0.26}$ $^{-0.14}_{+1.99}$	1.72 0.52 0.97 1.41	0 0 0 0,	4 8 9 9	12 8 11	11 13 6	7 9 13	e. ne.	Mrs. Mariella S. Masthews U.S. Weather Bureau Roland D. Powe.
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Florence 1	Florencedo	136 136 82 18 54	47 14 11 36	56. 4 59. 5 56. 7 57. 6	+2.8 +1.8 +0.5 +2.8	85 88 883 85	3 15 15	20 21 823 22	20 30 30 30	36  42 F39 40	3.20 3.25 1.91	-0.01 $+0.71$ $+0.94$ $-0.17$	2.48	0 0 0	6 5 6 6	18 20 19	5	7 5 10	ne. n. w.	H. K. Gilbert. Pee Dee Experiment Sta Maner B. Robert Brooklyn Cooperage Co. Mrs. Ellen Scott.
Marion	Marion	68 92 264 5-	4 2 6 1 13 1 82	*55.6 *55.4 57.0	+4.0 +2.7	*87 83	3 2 3	°22 25	30 30 30	±87 ±89	1.92 2.80 1.75 1.20 2.62	+0.25 -1.19 +0.92	0.50	0000	3	10 12 8	10 5 12	10 13 10	n. s. se.	Alden F. Schell. Roza R. Pavis. U.S. Fisheries Statio. Miss E. P. Ravenel Floyd C Martin
Rimini	Darlington	19: 7: 16: 24:	2 38 5 31 9 5 9 89	58. 6 56. 9 53. 9	+2.8	185 87 90 85 86	8 15 3 2 3	118 24 20 22 21	30 30 30 30 30	141 88 37 #35 40	3. 88 3. 17 2. 71 1.80 8. 14	+1.70 +0.85 -0.37 +1.07	2.48 1.85 7 1.85	5 (	5 7 8	9 11 10 16 16	9 7	21 17 11 7 12	W.	E D Fiblis, dr Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C Hurson
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		1														1	1			
Western Portion,	- Andrews														0 6	1	5 0	15	ne.	Frank B. McCov
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Catawba Chappells Cherokee (near) Chester Cleuson College	York	. 56 46 78 . 48	52 2 52 2 58 87 50 8	3 4 1 51. 7 53.	2 -2.	. 78	2	13 516 18 19	36	3	4. 61 3. 31 5. 11 5. 55 5. 45 2. 06	+2.2 +1.1 +2.6 +0.0	3 1.3 1.2 1.4 36 1.6	5 0 T	0   12 0   11 0   12 0   13 0   13	1 1	0 4	1	i se	James C. Faris. William Spearman. Spartonburg Water Works. J. C. Cornwell. Prof. F. H. H. Callero. U. S. Weather Burean.
Columbia  Crescent.  Due West Edgefield	Richland	6: 7	30	3 55. 3 52. 5 52.	i -0.	80		16	3	0 30	7. 48 5. 27 4. 58 4. 92	+3.2 +2.3 +2.3	25 2.0 31 1.1 19 1.	)2 T 89 43	0 15 0 16 0 16 0 16	4   1 6	0			Agent C. and W. C. Ry. Southern Public Utilities.
Guston Shoals 11 Greenville. Greenwood	Cherokee Greenville	. 10	39 -	5 51. 5 58.		7 75 7 82		15 16	3		5, 50 8,84	+2.4	68 1.:	27	0 1	1 1	0		0 sw.	
Heath Springs Hogback Mountain Kershaw Landrum	Greenville Kershaw Spartanburg	80 5	)25 600 (63)	27 52, 3 13 54, 14 51, 11 53,	2 +1. 6 +0.	6 84 4 79	2 2	14 14 13 14	8	0 31 0 38 0 38 0 38	6.33	F3.	54 0. 05 1.	92 56 3	0 1	7	10	0 2 2 1 5 1	0 w. 8 nw 2 e.	Blue Ridge Forests Co. John W. Hamel. R. Hartwell Wilds, D.D.S. L. G. Roff.
Laurens Little Mountain Newberry Pelzer Sulnda Sautnek	Newberry Newberry Anderson Saluda		711 502 850 536	36 53 25 58 25 27 53 36 52	$\begin{vmatrix} 0 & +2 & -6 & -6 & -6 & -6 & -6 & -6 & -6 & -$	6 76	1 2	18		30 39 30 30 30 30	4.50 5.66 5.45	+1. +2. +2.	96   1. 90   1. 97   2.	26 08 15 90	0 1	4 6 4 5	9 9	9 1	15 se 1 w. 12 sw 17 se.	E. W. Jeter.
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The departures from the normal temperature and precipitation are computed only for such stations as have tanor more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, ere determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, ere the second of the second of the second of second or division for the second of the second

#### ERRATA.

Annual, 1926.—Total rainfall, Spartanburg, page 51, August, should be 6.37. September, 1929.—Darlington, total number of clear days' page 34, should be 10, and cloudy days, hould be 19. Cathoun Palls, total number of cloudy days, page 34, should be 17. Greenwood, total precipitation, pages 31 and 35, should be 14.1. Columbia, greatest 24-hour precipitation, pages 37 and 38, should be 19. Newberry, highest temperature and date, page 38, should be 83 on 17th. Trenton, lowest temperature and date, page 38, should be 40 on 27th.

Daily Precipitation for November, 1929.

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Dro III.	trond		10	00.1	466	05 .																					800 .	01[					6, 87
TP College (	'atawba	20	2.	30	.42							85				10		03 . 7	20			:: ::		75 . (	01		46 .	15			. 1.		3,69
				- 1									1							1				89			75						5.61

<sup>\*</sup> et as otherwise indicated, observations are generally made late in the afternoon, near smeet, and precipitation recorded is for the 24 hours ending at the time of a tion. ||| Precipitation measured in the northing; amount then recorded is for the preceding 24 hours. \*\*\* Regular Wenther Bureau station; precipitation is for the period, midnight to midnight. \* Precipitation included in the next following measurement. Separate dates of fulls not recorded. T. Trace, or less than 0.01 inch.

# COMPARATIVE DATA FOR NOVEMBER.

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	Te	mperati	ire.		itation.	Averas	e nnm days.	ber of	ling lirec. n.		т	emperat	ure.	Precip	itation.	Avera	ge num days.	ber of	ing rec-
car.	Меап.	Highest	Lowest.	Average	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Clouds.	Prevail wind di	Year.	Mean.	Highest.	Lowest.	Average.	Average lays with 0.01 inch or more.		Partly cioudy.	Cloudy.	Prevaili wind di
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-		00 1	20 .	0.97	3	18	9	3	SW.				-	20	,	17	6	7	ne.

						Da	ily	Ter	apei	ratu	res	for	No	ve:	mbe	r,	1929	).													
Stations.	1	2	3	4	5	6 7	8	9	10	11	12	13	14	17	16	1	7   18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, "represents two days missing etc.

Minstruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs

WBO, Raleigh, 12-23-29-900

# CLIMATOLOGICAL

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

Vol. XXXII. Columbia, S. C., December, 1929. No. 12

GENERAL SUMMARY.

The monthly mean temperature was somewhat below normal, two periods of unusual heat being offset by two periods of abnormal cold. Precipitation averaged above normal.

Winter oats, rye, and hardy truck showed practically seasonable development, with no serious damage from early mouth freezes and subsequent low temperatures, but considerable quantities of swect potatoes were frosted. Winter wheat planting was delayed by wet soil in the northern counties, and planting continued slowly. The sweet potato harvest was complanting continued slowly. The sweet potato harvest was com-pleted by the 10th, and cotton picking was finished by the close about the 3d and 4th. The Santee River at Rimini and Ferof the month. Hog butchering proceeded satisfactorily.

#### PRESSURE.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Secion, was 30.17 inches. The highest pressure was 30.63 inches at One West on the 21st; the lowest pressure was 29.42 inches at Asheville on the 19th, and in the Section proper, 29.47 inches days, respectively. it Greenville on the same date.

# TEMPERATURE.

ports of 41 stations, was 46.0°, or 0.5° below the normal. The 11. ighest temperature was 81° at Summerville on the 16th. The 15, 27 carm periods were generally from the 6th to 18th and 27th to 1st, inclusive, when the daily mean temperatures ranged from ° to 21° above normal. The lowest temperature was 5° at aesar's Head on the 20th. The cold periods were from the

#### HUMIDITY.

egular Weather Bureau stations in and surrounding the Secon, was as follows: 8 a.m., 83%: noon, 63%; 8 p. m., 71%. he highest percentages occurred along the coast, and the lowest, ver the central counties.

## PRECIPITATION.

The average for the Section, 53 stations reporting, was .14 inches, or 0.61 inch above the normal. Precipitation courred in five fairly well defined periods. The amounts were enerally near or above normal, and the measurements were pove 5 inches in small scattered areas, ranging downward to ss than 3 inches in portions of Abbeville and York Counties. he greatest local monthly amount was 6.24 inches at Caesar's Head; least local monthly amount, 2.39 inches at Wint Hop College. The greatest amount during any 24 hours was 3.00 inches at Caesar's Head on 22-23d. The average number of rainy days was 14% above normal.

Measurable snowfall, ranging in depth from 0.1 to 4.0 inches, occurred in the higher elevations on the 22d. eral glaze (frozen rain) and sleet storm occurred in the lower Piedmont and upper coastal plain on the same date, and glaze conditions were reported from Due West on the 2d.

#### WIND.

The prevailing wind was from the west. The average hourly velocity, determined from 9 anemometer records, was The highest velocity for any 5-minute period was 38 miles per hour from the east at Charleston on the 22d.

#### RIVER CONDITIONS.

guson and the Pee Dee River at Poston were near or somewhat above flood stages throughout the month.

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 187.1 hours, or 61% of the possible amount. The average number of clear days was 18; partly cloudy, 5, and cloudy, 8, as against normals of 14, 6, and 11

### MISCELLANEOUS PHENOMENA (dates).

The monthly mean for the Section, determined from re- 11, 16; Due West, 11; Greenville, 11; Laurens, 12; Walhalla, Solar: Columbia, 8, 15; Due West, 7, 15, 18; Greenville,

Fog, dense.—Beaufort (near), 9, 10, 12, 13, 14, 16; Calhoun Falls, 14; Catawba, 10, 12, 13, 14, 15, 16, 17; Charleston, 9, 10, 13, 17; Columbia, 7, 8, 9, 13, 14, 15, 17, 28; Due West, 8, 9, 13, 14, 15, 18; Georgetown, 16, 17; Greenville, 2, 8, 13, 14, 18; Mars Bluff, 9, 13, 14, 15, 17; Pelzer, 8, st to 5th and 20th to 26th, inclusive, when the daily mean ton, 12, 13, 15, 17; Santuck, 8, 12; Sumter, 17; Trenton, 12, 13, 14, 17; Winnshoro, 13, 14; Yemassee, 12, 13.

### ERRATA.

November, 1929.—Temperature, text, page 41, second line, mean should be 54.7.

The mean relative humidity, determined from reports of 9

Caesar's Head, date of highest temperature, page 42, should be 11.

## MISCELLANEOUS DATA FOR DECEMBER, 1929.

a	r, sea		perat ees F		tic	ipita- n. hes.	Wir 3-eup A		re	Mean elati midi	ve	of pos-
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevalling direction.	8 a. m.	Noon.	8 p. m.	Percentage of positive sible sunshine
Asheville, N. C Angusta, Ga. Charleston, S. C. Charlotte, N. C. Colimbia, S. C. Due West, S. C. Greenville, S. C. Savannah, Ga. Wilmington, N. C. Means and ex- tremes.	30. 18 30. 18 30. 17 30 15 30. 18 30. 19 30. 14 30. 18 30. 17	38. 8 48. 0 50. 7 43. 6 47. 0 44. 2 44. 4 51. 6 49. 3	67 79 74 73 77 76 73 77 76	8 22 27 17 19 18 17 25 20	1. 40 4. 61 3. 54 3. 54 3. 97 3. 87 3. 44 4. 40 4. 27	0. 49 1.18 1.71 1.22 1.27 1.75 1.41 2.67 1.54	7. 1 4. 2 8. 1 4. 8 5. 9 7. 9 7. 3 10.0 5. 4	nw. w. s. sw. sw. w.	83 82 84 84 81 89 80 81	60 68 57 65 66 67 60	71 68 79 70 65 65 68 77	58 68 63 57 55 59 64 56 66

DIMI

Climatological	Date	for	December.	1929.

					Climat	ologic	eal D	ata	ior 1		nber,	1929.					_			
			record,	г	empera	ture, i	n degr	ees Fa	ahr.		Precip	itation,	in inc	nes.	Num	ber of	day	rs.	direction	
Stations.	Counties.	on, fee	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	(0.01 in. or more)		Partiy cionus.	Cloudy.	Prevailing dire	Observers.
Eastern Portion,					1			1								1		1		
Beanfort (near)‡‡ Blackville Charleston. Chenw.	Beaufort Barnweil Charleston Chesterfield	21 296 48 144	48 45 58 47	50.6 48.5 50.7 46.6	-1.6 +0.4 -1.0 +2.2	77 80 74 76	15 16 16 10	24 19 27 15	1 1 20 1	48 40 31 43	6. 00 5. 63 3. 54 3. 49	+3.11 +2.36 +0.82 +0.31	2.60 2.35 1.71 1.31	0 0 0 0.3	8 6 6	16	5 6	9 10 11	w.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway	Horry Darlington	25 175 106 63	39 34 38 43	49. 4 46. 4 	+1.1 +0.6	78 78	16 16	17 13 18	1 1 1	55 40 38	4. 26 4. 40 4. 78 4. 54	+1.02 +1.59 +1.61 +1.48	1.66 1.70 1.88 1.51	T. 0 0	6 6 6 5	18	0 2	10 11	ne. 	Paul Quattlebann. D. C. McCall. Wm. B. Gillespie, Heury C. Savage.
Florence 1Florence 2	Florencedo	136 136 82 18 54	47 14 11 86 47	47. 6 48. 0 49. 0 48. 0	+2.0 -4.6 -0.4 -0.1	75 80 80 80	16 16 16	15 20 19 16	1 1 1 1	48 50 49 40	3.83 4.29 3.71 4.17 4.49	+0.91 $+1.37$ $-0.26$ $+0.55$ $+1.45$	1.60 1.71 1.68 0.95 1.30	T. T. 0 0	6 5 7 7 6	18 20 18 19 19	7 4 5 4 2	6 7 8 8 10	sw. s. w. w.	11. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Brooklyn Cooperage Co. Mrs. Ellen Scott.
Marion Mars Bluff Orangeburg Piuopolis Rimini	Marion	68 92 264 54 97	4 6 13 82 15	47. 3 48. 1 46. 4	-1.4 -1.6	80 77 74	16 16 16	18 18 18	1 1 1	45 45	4. 94 4. 69 4. 87 3. 20 4 20	+1.93 +0.21 +0.92	1.58 1.85 1.96 1.50 1.86	0 0 0 0	7 6 8 3 5	12	8 11 6	6 10 13	n. sw. nw.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel. Floyd C. Martin.
Society Hill	Darlington Dorchester Sumter	192 75 169 249 24	31 5	445.6 48.6 47.4	+0.4 -1.0 +1.4	175 81 76	16 16 16	k14 19 15 20	1 1 1 i	*46 45 39	4.28 4.87 5.75 3.72	+1.04 +1.31 +0.27	1. 70 1. 67 2. 08	T. 0 0	7 6 8	17 16 19	2 4 3 	12 11 9 	n. w. sw. nw.	E. D. Fields, Jr. Clemson Coast Exp. Sta. Sumter Water Dept. W. Hampton Ramsey W. G. Hutson.
Division means and				48.1	-1.1	81	16	13	1	55	4.41	+1.83	2. 85	T.	6	17	5	9	SW.	
Western Portion.															9	20	1	10	nw.	Frank B. McCoy.
Aiken Anderson Blairs Casars Head <sup>‡‡</sup> . Calboun Falls Caunden	Fairfield	527 764 298 3118 508 222	36 3 3 4 5 5 8 8 8	48.4 44.8 37.7 44.5	+0.4	. 77	16 †14 16 †15	21 16 5 15	20	34	4.79 8.23 4.19 6.24 2.54 5.11	+0.53	1.40 1.40 8.00	2.0 T. 3.0 1.0 T.	7 6 6 8 6	12 17	9 5	10 9		11. 11. Russell. Sarah L. Owens. Casar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba Chappells. Cherokee (near). Chester Clenson College Columbia	York Newberry Spartauburg Chester Oconee		2 24 8 1 7 7 0 37	42. 0 446.8 47. 0	+3.3	74 d <sub>79</sub>	14 14 16			1 44 1 44 1 86	8,20	-0.35	1.09	T. 4.	9 6	20	5 10 7	6	sw.	James C. Faris. William Spearman. Spartanburg Water Works. J. C. Cornwell. Prof. F. H. H. Calhonn. U. S. Weather Burean.
Crescent.  Due West Edgefield Gaston Shoals []. Greenville.	Spartanburg Abbeville Edgefield Cherokce Greenville	. 68 . 71 . 68 . 103	0 3 1 15 1 15 0 26 9 45	44.	2 -1.4	76	16	17	2	0 87	5. 81 8. 50	-0.78 +2.33 -0.73 -1.46	1 1.8 2 1.2 0 1.4	0. 3 1 8.	8 8 9	15	 4 0	10	sw.	Broad River Power Co. U.S. W.B. Aerological Sta. Agent C. and W. C. Ry. Southern Public Utilities. U.S. Weather Bureau. M.M. Calhoun.
Heath Springs Hogback Mountain Kershaw Landrum	Lancaster	. 56 . 302 . 50	8 27 5 8 00 18	44.	0 +0.5 4 -0.6 +1.6	72 75 77	†15 +11	13	3	1 35 1 4: 1 4: 1 4:	4.2- 3.33 3.88	+0.6 +0.8 +0.8 -0.9	1 1.0 9 1.4	i T	6 8	16	2  2 4 6	12	W. 6 W. 5 W.	J. Marvin Bowers. Rlue Fidge Forests Co. John W. Hamel. R. Hartwell Wilds, D.D.S. L. G. Roff.
Laurens	Newberry Newberry Anderson Saluda	. 71 . 50 . 85	1 36 2 25 50 25 36 27	44.	$\begin{bmatrix} 0 & -2. \\ 6 & +0. \end{bmatrix}$	1 75 1 77	10	5 1 1 i	5	1 4 1 4 1 4 1 4	3. 4. 4. 3. 4. 8.	$\begin{array}{c c} 8 & -0.2 \\ 8 & -1.8 \\ 9 & +0.9 \end{array}$	1 1.8 6 0.9 9 2.0	8 0. 8 1. T	5 5	9 14	8 7		9 W. 9 Sw. 6 W.	E. W. Jeter.
Spartanburg Trenton Walhalla Winnsboro Winthrop College [1	Spartanburg Edgefield	. 87 62 106 5	20   30 61   25 45   3	6 46. 9 44. 5 °44.	$ \begin{array}{c c} 8 & -0. \\ 5 & +0. \\ 2 & -0. \end{array} $	6 77 6 76 8 *75	1	6 1 6 1 5 1	7 5 6 4	1 8 1 4 1 4 1 as 1 4	5 8.2 9 8.1 5 4.8 5 2.8	$ \begin{array}{c c} 9 & -0.5 \\ 6 & -2.1 \\ 9 & +1.0 \\ -1.8 \end{array} $	00 1.0 5 0.9 1.33 1.3	5 97 30 10 10 10 1	0	6 23 5 19 7 18 6 18 4 18	5 4 8	3	8 sw. 8 sw. 9 sw. 5 n. 9 w.	. H. W. Brandt.
Division means at	extremes		- 4							20   4	1				- 1	7 18 7 18	4	A	9 w. 8 w.	complete rangets are used in

The departures from the normal temperature and precipitation are computed only for such stations as have ton or more years of record, but all complete reports are used in determining section or division means. Reference letters (e, b, c), appearing in the table to the temperature data are from observed readings of the dry bulb; means are control to the control of the dry bulb; means are control observed readings of the dry bulb; means are control observed readings of the dry bulb; the means are sufficiently observed readings. Illustrations addresses of the compact from observed readings, Illustrations addresses of the compact of Caston Shorts, Blacksburg; of Withing College, Rock Hill; of Ferguson, Entaw effect of Caston Shorts, and the control of Caston Shorts, and the control of Caston Shorts, and the control of Caston Shorts, and the control of Caston Shorts, and the control of Caston Shorts, and the control of Caston Shorts, and the control of Caston Shorts, and the control of Caston Shorts, and the control of Caston Shorts, and the control of Caston Shorts are controlled to the control of Caston Shorts, and the control of Caston Shorts are controlled to the control of Caston Shorts, and the control of Caston Shorts are controlled to the control of Caston Shorts and the control of Caston Shorts are controlled to the control of Caston Shorts and the control of Caston Shorts are controlled to the control of Caston Shorts and the control of Caston Shorts are controlled to the control of Caston Shorts and the control of Caston Shorts are controlled to the control of Caston Shorts and the control of Caston Shorts are controlled to the control of Caston Shorts are controlled to the control of Caston Shorts are controlled to the control of Caston Shorts are controlled to the control of Caston Shorts are controlled to the control of Caston Shorts are controlled to the control of Caston Shorts are controlled to the control of Caston Shorts are controlled to the control of Caston Shorts are controlled to the control

Daily Precipitation for December, 1929.

Stations.	Drainage.															Day	oli	not	th.						ī	_							
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Except as otherwise judicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of servation. (III Precipitation measured in the morning; amount their recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the hour period, adding by to midnight. \*\* Precipitation included in the next following measurement. Is parate dates of falls not recorded. T. Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR DECEMBER.

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Reference letters (4, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

% Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 1-24-30 -900

### U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief,

### CLIMATOLOGICAL DATA.

No. 13.

sоитн сакония section. APR 4

### GENERAL SUMMARY.

VOL. XXXII. COLUMBIA, S. C., YEAR, 1929.

The average precipitation during 1929 was the greatest of record. There were but two months with rainfall below normal, and the February and October rainfall records were broken. Destructive winds prevailed in early May, and remarkably heavy nurricane rainfall occurred in late September and early October. The average annual temperature was slightly below normal; notable heat waves occurred in January and March, maximum emperatures for May were unseasonably low, and record breakng low temperatures were recorded at many central and western stations on November 30. Three tornadoes occurred in March, wo in April, one in September, and one in October; 17 persons vere killed, and 65 were injured by violent winds. Lightning caused the death of 7 persons in March, June, July, and November, and eight were injured in July and November. The general damage to crops and other property from tornadoes. wind squalls, hail, lightning, and floods was about \$5,945,585, of which amount about \$2,748,585 was in lowland districts, and the value of movable property saved by flood warnings approximated \$1,180,627.

The growing season opened about April 1 with vegetation somewhat in advance of normal, but considerable excesses in pring precipitation materially retarded plowing and planting. The woods were generally green by April 9. On May 2, however, the situation was materially altered by whipping winds young cotton and corn, and the necessary replanting resulted n irregular stages of growth. Winter cereal harvests were completed about June 18. Fruits and berries came on market practically in season. Tobacco curing was finished about Ausust 15. The first cotton bloom was picked from an undamaged field near Olar on June 1, and the first open boll was picked from mother undamaged field near Barnwell on July 17, or 11 days earlier than normal; the first bale was ginned at Syracuse on August 5, or 7 days earlier than normal. The hurricane rains of late September and early October caused much damage to outstanding crops. The remaining period to the close of the year was favorable for housing crops, with no unusual features, except a marked cold wave at the end of November. The woods were generally bare about November 24.

The last general spring killing frosts occurred about March 5 in the eastern and about March 19 in the western portion, and the first in autumn occurred about November 14 in the western and about November 26 in the eastern portion. iverage latest spring killing frost date for 1929 was March 13, or 10 days earlier than normal, and the average earliest autumlays longer than normal.

The mean annual temperature was 62.3°, or 0.6° below normal. The warmest month was August, with a mean of RICHARD H. SULLIVAN. Meteo JOHN LASITY OF ILLINOIS; the coolest month, February, with a mean of 45.3°.

The highest annual mean at any station was 66.4° at Charleston; lowest annual, 54.1° at Caesar's Head. The highest temperature was 101° at Camden on August 2 and at Calhoun Falls on August 24; lowest temperature, 2° above zero at Caesar's Head on November 30.

Seasonal temperatures, with departures from the 43-year normals: Winter, 46.0°, -0.4°; spring, 63.5°, +0.8°; summer, 76.9°, -1.8°; autumn, 62.8°, -1.1°.

The average annual precipitation was 66.13 inches, or 17.85 inches above normal, and the highest annual average of record. The greatest annual amount at any statian was 96.03 inches at Caesar's Head; least annual amount, 44.96 inches at Charles-The greatest monthly amount at any station was 16.53 inches at Garnett in September; least monthly amount, 0.60 inch at Landrum in August. The average number of rainy days was 115; greatest number at any station, 151 at Greenville; least number, 80 at Edgefield. Average annual snowfall, 1.8 inches. Snowfall, ranging from Traces to 6.0 inches, occurred on January 6, February 3, 4, 5, 13, 15, and 21, November 22 and December 22.

During the growing season, March to September, inclusive, the total precipitation was 38.97 inches, or 7.48 inches above

Seasonal precipitation, with departures from 43-year normals: Winter 16.00 inches, +4.51 inches; spring, 18.35 inches, +7.62 inches; summer, 13.26 inches, -3.32 inches; autumn, 18.52 inches, +9.01 inches.

Freshets occurred in one or more streams of the Pee Dee, Santee, and Savannah River Districts every month after January. General floods occurred in February, March, September, and October, the damage being unusually heavy after the hurricane rains of the latter two months.

The average annual atmospheric pressure was 30.07 inches. The highest pressure was 30.65 inches at Due West on January which caused immense damage to young crops, particularly 3; the lowest pressure was 29.30 inches at Columbia and Greenville on May 2.

The average annual sunshine was 60% of the possible The average annual number of clear days was 169; amount. partly cloudy, 83, and cloudy 113, as against normals of 173, 97, and 95 days, respectively

The average annual relative humidity at 8 a. m. was 82%; noon. 61%, and 8 p. m., 70%.

The prevailing wind was from the northeast. The average annual velocity was 6.9 miles. The highest velocity for any 5-minute period was 42 miles per hour from the southwest at Columbia on March 23 and from the west at Greenville on May 2.

### WEATHER BY MONTHS.

January.—Temperature and precipitation both averaged somewhat above normal. The only notable feature was a heat wave from the 15th to the 25th, inclusive. Snow flurries occurred at Walhalla on the 6th.

February. - The February highest average precipitation of record was broken during the month, and temperatures averaged al killing frost date was November 19, or 9 days later than considerably below normal. Glaze storms occurred in the reformal. The growing season was 251 days in length, or 19 gion around Due West on the 5-6th and 21st. Measurable (CONTINUED ON PAGE 52.)

### Climatological Data for the Year 1929.

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			Те	mpera	ture (	degrees F	ahren	heit).		Pr	eeipitat	ion (in	ehes).					Sky.		Jo u
Stations.	Counties.	Elevation, feet.	Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record,	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month,	Total snowfall.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction wind.
EASTERN PORTION.						- 3										1				
Reaufort (near) Blackville Charleston Cheraw	Beaufort	21 296 48 144	17 46 57 48	64. 4 66. 4 61. 8	100 100 99 95	July 2 July 2 July 2 June 14 <sup>†</sup>	24 19 27 15	Dec. 1 Nov. 30† Dec. 20 Dec. 1	49 46 59 48	48. 67 50. 35 44. 96 67. 93	6.96 6.30 6.07 11.68	July Feb. July June	0, 88 1, 79 1, 71 3, 02	Oct. Nov. Oct. Apr.	0 0 0 1.0	88 103 113 119	169 143 107	105 156 131	91 66 127	s. sw.
Conway	Horry	25 175 106 63	33 30 41	64. 6 62. 9 64. 2	97 96  97	Aug. 4 July 6	17 13 18	Dec. 1 Dec. 1 Dec. 1	41 35 39 44	51. 05 61.84 59. 86 60. 77	7. 16 10. 67 6.88 8. 70	Jan. May May Aug.	2.37 2.30 2.10 1.66	July Sept. Nov. Nov.	T. 0 0	129 112 108 117	176	36	153	sw.
Florence 1	Florence	136 136 82 12 54	48 12 37 48	68. 7 66. 0	98	Aug. 2† June 20 June 20	15 20 19 16	Dec. 1 Dec. 1 Dec. 1 Dec. 1	48 13 12 87 48	50. 52 48. 09 66. 90 55. 35	9. 23 8. 20 16. 53	June June Sept.	1. 67 1. 89 3.20	Sept. July Nov.	T. 0 	116 97 122	208 192 193	69 98 97	88 75 75	sw.
Marion	Florence Orangeburg Berkeley	92 264 54 97	2 14 45	63. 8 65. 3	98 97	Aug. 11†	13 18 18	Dec. 1 Dec. 1 Dec. 1	2 6 11 83 19	51. 93 57. 17 50. 30	7. 08 7. 14 6. 73 6. 67	May May Aug. Feb. May	1. 92 2. 80 1. 75 1. 20 1. 50	Nov. Nov. Nov. July	0 0 0	95 117 127	117	118	135	s. sw.
Society Hill Summerville	Darlington Dorchester Sumter	192 75	89 82 1	65. 0	97 98	July 6† July 2†	14 19 15	Dec. 1 Dec. 1 Dec. 1	39 32 2 2	72, 50 51, 38	10. 94 6. 26	June June May	3. 77 2 49	Sept. Oct.	0. 5 0	110 107	210 156	53 64	102 145	n. ne.
Wedgefield Yemassee	Sunter Hampton	249 24	41	65.5	100 97 100	Aug. 4 July 2 June 20†	18 20 13	Dec. 1 Dec. 1 Dec. 1	41	46.81 59.76 55.83	9, 46 16, 53	June Sept.	1.80 1.74 0.88	Oct.	T.	110	184	26 80	155	se.
Division means and WESTERN PORTION.	extremes.			04.2	100	June 201	10	2001		00.00			0100							
Aiken Anderson Blairs Cæsar's Head.	Aiken	527 764 298 3118	66 33 6	64. 4 61. 4 54. 1	96 97 86	Aug. 24 Aug. 4 Aug. 8	21 16 2	Dec. 1 Dec. 1 Nov. 30	68 37 25 6	67.11 65.45 67.05 96.03	9.45 9.70 10.53 14.57	Oct. Mar. Feb. Sept.	0.79 0.87 2.11 2.12	Aug. Aug. Sept. Aug.	0 4.0 1.0 9.0	106 119 99 114	217 228 78	26 15	122 127	ne. w.
Calhoun Falls Camden Catawba Chappells	Abbeville Kershaw York Newberry	508 222 562 402	13 51	62.4	101 101	Aug. 24 Aug. 2	15 16	Dee. 1 Nov. 30	31 81 24 25	79. 72 75. 93 63. 79 77. 88	13, 91 11, 80 10, 24 10, 85	Sept. Oct. Oct. May	0, 85 2, 71 2, 53 1, 39	Aug. Aug. Sept. Aug.	1.5 T. 1.0 1.5	99 123 102 185	148	71	146	s. 
Cherokee (near) Chester Clemson College Columbia Crescent	Chester	487 850 351	2 8 35 43	61.6 63.6	95 97 97	July 1 Aug. 4† Aug. 2	11 16 14 19	Dec. 1 Nov. 30 Dec. 1 Nov. 30	2 8 38 48 2	64.98 71.87 57.57 90.16	9. 64 10. 23 7. 62 15. 64	Feb. July Sept.	1. 67 2. 06 3. 20	Aug. Aug. Nov. Jan.	10.0 8.0 T. 4.8	107 123 119 135	175 130	71 126	119 109	w. w. ne.
Due West Edgefield Gaston Shoals‡‡ Greenville	Abbeville Edgefield Cherokee	680	. 16	61.0	96	Aug. 24	16  15	Nov. 30	16 17 27 46	77. 49 82. 71 65. 71 66. 81	15.44 14.71 10.39 12.95	Sept. Sept. Feb. Sept.	0.66 8.59 1.41 1.35	Aug. Apr. Aug. Aug.	1.1 0 0.4 9.3	136 80 142 151	111	123	131	sw.
Greenwood Heath Springs Hogback Mountain	Greenwood Laneaster	989 671 568 3025	46 46 28 4	60.5	98 99 94 88	July 1 Aug. 25 June 12 July 2 June 21	15 13 12 13	Dec. 1 Dec. 1 Feb. 1 Dec. 1	46 28 4 14	82.53 67.90	14. 31 8, 88 11. 77 11. 00	Sept. Oct, Sept. Mar.	1.03 2.79 1.31 2.32	Aug. Nov. Aug. Jan.	0.1 0.5 	128 99	140	66	159	w. s. 
Kershaw Landrum Laurens Little Mountain Newberry	Kershaw	500 1063 589 711 502	14 15 12 37 26	62.1 61.9 60.9 62.3	96 97 98 96 98	July 14 Aug. 14 June 204 June 21	10 15	Dec. 1 Dec. 1 Nov. 30 Dec. 1	15 12 38 26	70.89 75.47 74.66 75.28	10.02 14.26 12.47 11.44	Sept. Sept. Mar. Oct.	0. 60 0. 94 3. 67 3. 44	Aug. Aug. Nov. July	8. 1 1. 5 0. 5 0. 6	110 133 116 128	198 190 174	99 67 102	68 108 89	nw. w. w.
Pelzer Saluda Santuek Spartanburg	Anderson Saluda Union Spartanburg	850 536 512 875	28 37 53	61.5 60.5 58.4	98 99 94	June 16 Aug. 23 July 1	15 12 12	Dec. 1 Dec. 1 Dec. 1	26 28 37 51	67.89 79.65 74.67 73.93	9.76 11.79 9.83 11.50	Sept. Oct. Mar. Oct.	1.54 1.17 2.09 3.12	Aug Aug Aug Dee.	6. 0 T. 2. 0 9. 0	140 143 134 106	109 161 245	185 115 9	71 89 111	sw.
Trenton Walhalla Winnsboro Winthrop College ‡‡	Edgefield Oconee do York	620 1061 545 690	35 28 36 30	63. 7 59. 3 61. 0	97 97 99 96	Aug. 24 Aug. 23 Aug. 13 Aug. 15	17 15 16 14	Nov. 30 Jan. 3 Nov. 30 Dec. 1	30	71. 41 74. 06 70. 87 60. 81	10, 65 14, 31 10, 18 9, 21	Sept. Sept. Mar. Feb.	1. 04 1. 97 2. 74 2. 39	Sept. Dec.	T. 2. 0	96 140 136 70	134 176 130 125	131 97 124 178	100 102 111 62	e. sw. sw.
Division means and Section means and ex				61. 0 62. 3	101 101	Aug. 2†		Nov. 30 Nov. 30		72. 87 66. 13	15.64 16.58	Sept.	0.60		3.0	118	163 169	85 83	117	ne.

† On other dates also.

\*\* Temperature data are from observed readings of the dry bulb; means are computed from observed readings.

† Postoffice addresses of these stations are as follows: Of Gaston Shoals, Blacksburg; of Winthrop College, Rock Hill.

E VIC, Tree					1.1.	11.11	0130		11,	17,11	.1:	201	1111	( ,1	ROI	21 IN 2	1 51	CH.	O.N							51
			M	onthly	y and	i Ann	uni :	Precip	itati	on for	the	Year	192	ə, wi	th D	epart	ures	from	the	Norm	ai.					
	Ja	nuary	r. Fe	bruar	у.	March.		April.	1	May.	J	une.	J	uly.	An	gust.	Sept	tember	. Oct	lober.	Nove	ember.	Dece	mber.	Αn	nnal.
Stations.	Precipitation.	Departure.	Precinitation	Denarture.	Danothiteonic	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
EASTERN PORTION, aufort																										+ 2.45 + 4.26 (.26 + 1.29
lington						31 -0. 46 +2. 44 +2. 11 +2.	25 8, 50 3, 66 2, 87 4,	02 - 0.1 $27 - 0.0$ $91 - 0.4$ $57 + 1.6$					. 010			1	1 3.2 4 2.5 4 4.0 4.8	9 - 1.59 0 - 1.70 1 - 0.18 5 + 0.57	3.97 6.18 4.98 4.03	7 + 0.73 6 + 3.24 + 2.05 6 + 1.07	3. 2. 72 3. 24 2. 10 1. 66	+0.49 +1.26 +0.65	4. 26 4. 40 4. 78	+1.02 +1.05 +1.61	51.67 61.84	+ 0.46 +17.46 +10.67 +12.63
rence 1	3.1	13 +1.	13 6.0 97 6.:	26 +2. 21 +1.	92 5. 80 5. 37 5.	57 +2. 90 +2. 32 +1.	20 3. 17 3. 93 3.	43 +0.5 15 +0.2 53 +0.9 50 +0.7	8.3	6 + 4. 9	9 8.1	+3.0	4 3.9	-2.64	2. 47	-3.66	3.5	4 -0.63	3.61	+0.85	3.25 1.91	+0.68 $+0.51$ $+0.94$ $-0.17$	4.29 8.71 4.17 4.49	+1.37 -6.26 +0.55 +1.45	48.69 66.50 55.35	+ 4.63 + 2.20 +17.64
rs Bluff nigeburg ooolis nini	4. 8 4. 4 4. 3 4. 1	12 +1.0 10 +0 10 +0,3	5. 5. 9 04 6. 18 6. 0 33 6. 3	95 18 +2. 07 +2. 36 +2.	04 7.	02 11.	2. 42 2. 81 4.:	17 1 1. 0.	7. 1 6. 4 1 5. 1 2 13. 6	I TO. 2	2 4. 9.	+0.6	1 1.50	-6.36	3.70	-1,32	7, 30	+3.52	4.03	+1.60	2.62	+0.92	4, 20	+0.52	1.0 88	+ 6 88 +14.35
dety Hill nmervitle oter dgefield nassee	4.2	6 +1.	14 5	58 +1. 40 +1.	53 4. 85 5.	15 +0. 16 +1.	71 3	18 +0.3	7.7	3 +4.40 5 +0.2	0 5.53 1 9.40	+0.76	6 1.98 0 6.57	3. 04 0. 20	2.65 4.78	-3.04 -1.50	2.07 7.94	7 - 0.89 + 0.23 7 - 1.75 1 + 3.75	6. 64 2. 49 5. 50 1. 74	+3.76 -0.84 +2.79 -1.09	3.88 3.17 2.71 1.80 3.14	+1.70 +0.85 -0.37 +1.07	4.28 4.87 5.75 2.90 3.72	+1.04 +1.31 -0.36 +0.27	72, 50 51, 38 46, 81 59, 76	+24.55 + 0.25 + 1.84 +11.77
ivision means and departures.	4.3	+1.2	5. 9	+1.	87 4.	83 +1.3	33 3	+0.3	6. 42	2 +2.9	6. 76	+1.30	3.85	- 2.47	1.47	-1.83				+1.07						
en lerson irs ars Head	4. 20 3. 9: 3. 4: 6. 9	6 +0.5 -0.3 -0.3	7 9.1 1 9.3 1 10.5	11 +5. 3S +4.3 33 +6.	11 5.9 22 9. 46 8.9	96 +2.0 70 +4.1 94 +5.2	01 4.4 18 4.6 14 4.6	5 +1.28 9 +0.60 0 +1.16	6, 28 6, 98 6, 47 6, 19	8 +2.76 5 +3.6 7 +3.82	6.91 3.68 6.77 5.40	+2. 23 +0.03 +2.80	3 3.81 3 2.26 2.93 8 13	-1, 11 -2, 72 -2, 11	0.79 0.87 5.51	-4.48 -4.03 +4.40	8. 40 9. 43 2. 11	+5.04 +6.30 -0.95	9.45 7.98 8.47	+6.78 +5.26 +5.98	2.90 4.01 3.66	+0.86 +1.87 +1.42	4.79 3.28 4.19	+1.13 -1.55 +0.53	37.11 35.45 37.05	+21.61 +17.59 +23.94
nonn Falls	4. 58 4. 48 2. 89 3. 97	8 +0.3 +0.9 -0.9 +0.3	4 11. 4 0 8. 2 4 8. 7 0 9. 2	2 +6.0 3 +4.3 0 +4.1 8 +5.1	06 11. 6 32 7.3 16 9.3 15 10. 8	67 +6.8 67 +3.6 60 +5.1 63 +6.6	1 4 2 8 4.2 9 3.2 9 7.4	8 +0.70 8 +1.17 5 +0.02 7 +4.53	5. 97 7. 16 5. 47 10. 85	7 +1.99 +3.95 +1.69 +7.81	4.28 9.72 9.72 1.4.68	+0.37 +5.20 +0.86 +1.13	3. 29 7. 95 5. 52 3. 65	-1.87 +2.64 -0.57 -1.16	0.85 2.71 2.62 1.89	-3.71 -2.64 -2.28 -2.74	13. 91 4.21 2. 53 9. 12	+1017 +0,49 -1,02 +5.78	12, 17 11, 80 10, 24 9, 66	+9.37 +8.68 +6.92 +7.15	4.76 2.96 4.61 3.31	+2.44 +0.63 +2.25 +1.13	2. 54 5. 11 3. 42 3. 97	-1.97 +1.68 -0.41 -0.35	9, 72 5, 93 3, 79 7, 88	+30.71 +31.21 +15.87 +85.42
rokcc (near) ter	7. 60 4. 40 2. 82 3. 20	-0.6	1 10. 2 6. 9 10. 5	3 +4.7 6 +3.1	9. 6 8. 9 19 5. 2 9. 7	57 92 +4.3 27 +1.8	. 4.4 5.8 6 6.4 6 4.2 4.9	3 6 6 +2.53 0 +1.31	5, 20 8, 62 8, 22 5, 49 4, 76	+4 27 +2,40	5. 13 5. 68 4. 24 6. 07	+0.85 +0.07	2.89 7.62 4.97	-2.39 +2.27	1. 06 1. 67 6. 05 6. 85	-3.33 +0.58	9. 64 8. 24 3. 27 15. 64	+4.1 -0.18	8. 36 6. 01 5. 62 11. 39	+2.71 +3.06	5.11 5.55 5.45 2.06 7.48	+2.66 +0.08	3.36 3.20 3.97 4.55	-2.26 7 +0.94 5	4. 98 1. 87 7. 57 0. 16	+16.91 +14.98
on Shoals aville awood	3, 63 3, 03 3, 82 4, 38	+1.06 -1.35 -1.05 +0.35	9. 0 9. 0 9. 10 9. 10 9. 2	7 +5.2 9 +5.8 5 +3.9 2 +4.4	9 7.8 9 7.8 2 9.0 6 10.7	5 +3.8 5 +6.6	1 3.5 3 4.1 8 5.7 8 5.9	$\begin{array}{c} +3.21 \\ -0.07 \\ 5 +0.52 \\ 3 +2.01 \\ +2.84 \end{array}$	10, 55 4,59	+1.14 $+7.35$ $+0.98$	3.69 3.74	+1.46 $+0.33$ $-0.74$	4. 16 5. 96 5. 71	-0.42 $+0.54$ $+1.16$	0.66 2.81 1.41	-3.87 $-0.69$ $-3.90$	15. 44 14. 71 6. 50	+1199 +1176 +3.15	8.78 9.71 9.92	+6.95 $+2.20$ $+6.96$	5. 27 4. 58 4. 92	+3.25 +2.31 +2.19 +2.47	3.87 5.31 3.50 3.44		7. 49 2. 71 5. 71 6. 81	+83.75 +40.47 +17.09 +13.63
th Springs back Mountain haw lrum. ens	3, 37 2, 25 2, 32	-2.08 -1.50	7.89 9.70 6.86 5.26	9 +8.9 6 +3.19 6 +0.2	9 7.8 . 10.9 2 11.0 1 8.9	7 +4.2 7 +7.6 2 +3.4 5 +6.1	4.50 6.31 4.84	+1.31 +1.22 +1.04 +1.38	7. 34 6. 08 7. 67 7. 79 4. 99	+4.09 +4.25 +1.88 +1.45	5.98 4.28 4.98 3.05 4.06	+0.81 -0.20 -1.81 -0.10	6. 60 4. 22 5. 18 4. 70 4. 42	+1.59 -1.12 -2.80 -0.50	2.89 1.31 3.93 0.60 0.94	-0.24 -0.14 -4.04 -3.52	5.49 11.70 6.07 10.02 14.26	+2.36 +4.01 +5.56 +8.99	8.88 9.96 9.70 9.94	+6.36 +7.85 +5.39 +6.84	2.79 3.45 6.83 4.05	-0.81 +1.54 +3.05 +1.81	4. 24 - 3. 88 - 4. 42 -	+0.646 +0.316 -0.997	7. 90 9.59 9.89	+23. 18 +26. 40 + 8. 93 +26. 20
Mountain berry r. ia uck	4, 26 3, 91	-0.47 $-0.52$ $+0.23$ $+0.11$	8, 60 10, 57 9, 45	+6.00 +6.00 +6.00 +4.50	9. 85 9. 56 4 9. 88 9. 88	+8.81 +6.01 5 +4.81 +5.65 +5.45	5. 86 5. 93 4. 02 5. 58 4. 57	$^{+2.44}_{+2.75}$ $^{0.00}_{-2.58}$ $^{+1.25}$	5.86 7.54 5.58 7.74 6.51	+1.77 +3.91 +1.37 +5.08 +3.21	5. 64 4. 40 4. 76 5. 81 6. 44	+1.42 +0.26 +0.87 +1.51 +2.57	5. 02 3. 44 1.78 6. 09 6. 49	+0. 24 -1. 22 -3. 79 +0. 91 +1. 36	5. 22 5. 86 1. 54 1. 17 2. 09	+0.25 +0.81 -2.07 -2.14 -8.52	3. 72 3. 88 9. 76 6. 77 6. 53	+0. 27 +0. 61 +6. 15 +3. 46 +3. 21	8.33 11.44 8.89 11.79 9.39	+5.52 +8.94 +5.47 +9.01 +6.28	8. 67 4. 50 5. 66 5. 45 5. 42	+1.31 +1.96 +2.90 +2.97 +2.60	4. 52 - 4. 48 - 8. 48 -	+1.22 7 -0.21 7 -1.86 6	1. 66 - 5. 28 - 7. 89 -	H30, 95 H29, 84 H16, 21
	2.09	-1.17	10, 27 9, 07 8, 05 9, 21	+5. 35 +3. 64 +3. 62 +5. 03	9. 3: 10. 94 10. 48 10. 48 8. 78	+3.79 +5.10 +4.86 +6.54 +5.38	5, 55 4, 15 2, 94	+0.96 -0.35 +0.72 +1.21 -0.35	4. 61 6. 50 7. 25 7. 05 5. 41	+0, 49, +3, 26 +3, 11 +3, 70	5. 13 4.54 2. 46 7. 44	+0.72 +0.20 -2.29 +3.06	3. 42 8. 49 1. 97	-1.30 +2.99 -4.11 +2.14 -2.97	4.06 - 1.04 - 2.51 - 2.97 -	-1.26 -4.46 -3.31 -2.11 -2.46	0. 88 0. 65 4. 34 2. 74	+7.02 1 +7.35 +9.21 -0.72	1.50 - 9.69 - 5.18 - 9.03 -	+8.96 +6.73 +1.82 +6.06 +5.80	6, 25 + 8, 87 + 6, 87 + 3, 69 +	+3.42 +1.42 +3.87 +1.52	3. 12 - 3. 29 - 3. 16 -	-0.99 73 -0.50 74 -2.15 74	3.93 + 1.41 + 1.66 +	-24.73 -27.07 -15.28
partures.						+4.09 +3.61		1. 10		- 1	- 01			-0.69	2. 35 -	-3.05	8.91	+5.03	9. 38 -	⊦6.35 4 ⊦4.27 3	4.76 +	-2.25	3.95	0.38 72	. 87 +	-24. 42

The departures from the normal precipitation are computed only for such stations as have ten or more years of record.

Monthly and Annual Mean Temperatures for the Year 1929, with Departures from the Normal.

	Janu	ary.	Febr	uary.	Mai	ch.	Ap	ril.	Ма	y.	Ju	ne.	Ju	ıly.	Aug	ust.	Septe	mber	Octo	ber.	Nove	mber	Dece	mber.	Ann	ual.
Stations.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	D parture.
EASTERN PORTION. Beaufort (hear) Blackville	53. 0 45. 4	$+3.1 \\ +1.5$	51.1 43.7	-1.8	57.0	+4.0	63.3	+3.6	68.6	-1.9	74.0	-3.4	77.1	-2.9	77. 4	-1.3	72.8	-0.8	61.4	-0.9	54.7	+1.9 +2.6 +1.9 +2.3	46.6	+2.2	61.8	-0.1
Conway Darlington Ferguson Florence 1. Garnett.	51. 0 *47. 6 49. 6 48. 6 *53. 2	+2.9 +2.2 +2.4 +3.1 +3.0	48.2 44.6 47.4 46.4 52.2	-0.2 -1.4 -0.8 -0.4 -1.4	60. 8 58. 8 59. 8 59. 1 63. 1	+4.2 +3.1 +3.7 +3.3 +4.1	65.6 64.8 66.3 65.6 67.8	+2.8 +2.6 +3.9 +2.8 +1.6	70.1 70.0 70.5 70.6 *72.2	-0.5 -0.7 -0.8 -1.4 +0.3	75. 8 75. 2 75. 2 76. 2 76. 7	-1.3 -1.9 -2.1 -2.5 -1.7	78. 6 78. 1 79. 0 579. 3 79. 6	-1.8 -1.8 -0.6 -1.9	79. 4 78. 2 79. 6 78. 8 50. 0	+0.2 -0.7 +1.2 -1.4 -0.6	74. 5 78. 4 74. 6 73. 7 75. 0	-0.3 -1.2 +0.2 +0.5 -2.4	64.2 62.0 63.0 62.6 65.3	-0.6 -1.6 -1.1 -1.6 -2.7	57.7 55.6 57.0 56.4 59.5	+3.3 +2.6 +2.6 +2.3 +1.8	49. 4 46. 4 47. 8 47. 6 48. 0	+1.1 +0.6 -0.5 +2.0 -4.6	64. 6 62. 9 64. 2 63. 7 66. 0	+0. +0. +0. +0. -0.
Georgetown Kingstree Marion Orangeburg Pinopolis	51.6 49.2 51.2 51.8	+3.8 +4.3 +4.0	49. 4 46. 4 49. 4 49. 4	+1.5 -1.4 -1.1	61. 4 60. 0 61. 8 60. 6	+4.5 +4.2 +3.8	66. 4 65. 0 67. 0 58. 6	+2.7 +2.4 -3.4	71.2 71.0 72.0 64.8	-0. 4 +1. 7 -5. 2	76. 2 <sup>b</sup> 75. 3 76. 4	-2. 0 -2. 3	78.8 79.0 579.3	-1.6 -0.7	80.3 *79.0 80.2	-0.8 +0.5	74.8 73.8 74.7 74.3	+0.1 -0.8 0.0	64.2 h63.4 64.8	-0.2	*56. 7 57. 6 *55. 6 *58. 4 57. 0	+0.5 +2.8 +4.0 +2.7	49. 0 48. 0 47. 3 48. 1 46. 4	-0. 4 -0. 1 -1. 4 -1. 6	65. 0 63. 8 65. 3	+i. +i.
Society Hill Summerville Sumter Wedgefield Yemassee	46.0 53.3	-0.1 +4.6	44.2 50.9	4. 3 -0. 8	56. 3 62. 2	+0.7 +4.1	62.3 66.8	-0.3 -2.7	71.4	-0.8	76.0	-1.8	79. 2 78. 4	-0.2 -2.3	577.4 79.2	+3.8 -0.7	72.7 74.8	-1.4 -0.8	61.0 65.0	-2.9 -0.6	553. 9 59.0	+ 2.8 -0.1 +3.2	45.2 48.6	-2.6 +1.4	65. 5	+0.
Division means and departures. WESTERN PORTION. Aiken Anderson Cresar's Head. Callhoun Falls	50.4	+4.2 +0.4	48. 8 44. 2	-0. 4 -1. 3	60.2 56.6	+4.6 +2.5	66. 6 63. 9	+3.3 +2.3	70.8 68.0	-0.9 -1.8	75. 0 74. 6	-2.8 -1.4	78. 4 77. 8	-1:3	79.8 78.8	+0.9	73. 4 71. 2 63. 4	-1.2 -3.0	63.6 59.8 53.6	-0.3 -3.3	3 57.4 3 52.2	+2.7 +3.1 -0.6 +1.2	48. 4 44. 8 37. 7	+0.8	64.4 61.4 54.1	+0.:
Camden  Cherokee (near) Chester Clemson College Columbia Due West	40.4		40.2		53.2		59.4		65.6		71.8		74.0		74.3				a57.1		51.5	2 +1.2 2 +2.8 4 +1.4 4 -0.9	42.0			
Greenville Greenwood Heath Springs Hogback Mountain Kershaw	43.3 45.3	+8.0	42, 8	-0.8	55. 1 57. 7	+5.2 +4.8	63.2 63.3	+4.6	67.4 68.6	+0.2	74. 3	+0.5	77.2	2 +0. 5 -0.	77.2	+1. +0.	70.4	-0.2 -1.3	59.4	-0. -2.	51.3 53.4	3 +1. 6 +1. 1 +0. 2 +1.	44.4	+2.:	60.5	+1.
Landrum Laurens Little Mountain Newberry Saluda	42.9 44.7 45.1 45.4	+0.8 +2.8 -0.3	42.2 5 44.6 8 44.6 4 45.5	-2.3 -1.8 -2. -0.8	54.6 56.5 55.6 57.6	+3.6 +4.5 +0.1 +2.6 +1.	62 2 64, 1 63, 1 64, 0 63, 0	+2.5 +3.8 +1.3 +1.4 +0.6	67.4 8 *68.8 68.4 1 69.6 6 68.7	+0.8 +1.2 -2.8 -1.6 2.	74. 5 75. 6 74. 6 76. 0 75. 0	-0. -1. -3. -2. -2.	77. 0 78. 6 76. 8 79. 6	0 -0. 6 +0. 8 -3. 4 -1. 0 -3.	78.8 77.6 78.6 77.6	+1. -2. -1. -3.	70.9 72.2 70.7 70.7 72.4 71.4	-2.1 -1.6 -4.5 -2.	59.4 6 60.4 2 57.8 7 60.2 2 58.9	-2. -2. -6. -3. -4.	9 51.0 0 58.6 2 58.0 2 58. 4 58.	6 +0. 5 +3. 0 +2. 6 -0. 2 +0.	44.6 0 45.2 1 44.6 1 45.6 6 44.6	+1. 0. -2. +0. -1.	0 0 61.9 1 60.9 1 62.3 2 61.4	+0. 9 +0. 9 -2. 3 -0. 5 -1.
Santuck Spartanburg Trenton Walhalla Winnsboro Winthrop College	41.8 °49.4 42.6 44.6	+0.5 +2.5 +0.5 +0.6	41.6 47.2 41.8	-2.	5 54. 0 5 58. 8 3 52. 6 5 56, 4	+2.6 +2.6 +2.6 +1.1 +2.6 +2.6	61. 4 59. 8 65. 0 60. 7 63. 9	+0.9 -0.1 +2. +1.9 +4.1 +2.1	65. 1 70. 0 65. 6 65. 6 65. 6 65. 6 65. 6 68. 2	-2.6 -4. -1.1 -1.1 -1.1	74.0 1 72.4 8 75.4 2 72.6 2 75.0 1 74.6	-2. -4. -3. -2. +0. -2.	9 77. 2 75. 1 77. 6 76. 3 78. 0 77.	4 -2. 0 -4. 8 -2. 2 -0. 1 -1. 7 -1.	2 "77.1 3 75 4 4 79.0 9 76.1 5 d78.2	1 -1. 1 -2. 0 -0. 1 -1. 3 +0. 2 -1.	3 71.7 4 68.8 4 74.8 4 69.4 1 72.4 1 71.5	-1. -3. -0. -2. -1. -2.	4 58, 4 5 56, 9 5 64, 0 2 58, 2 8 60, 0 6 59, 6	1 -3. 9 -4. 0 -0. 2 -2. 0 -2. -2.	9 52. 1 50. 6 55. 4 51. 4 53. 8 53.	8 +1. 6 -0. 9 +1. 2 +0. 3 +0. 0 +1.	8 43.4 1 40.1 0 46.1 6 44.1 6 44.1 3 44.1	6 0. 8 -1. 8 -0. 5 +0. 2 -0. 1 +0.	6 68.1 6 68.1 6 69.1 8 8 61.1	5 -0 1 -2. 7 +1. 3 +0. 0 -0
Division means and departures. Section means and departures.	44. 6	+0.	43.	-1.	5 56.0	+2.3	62.5	+1.	68. 1	- 2.	74.2	-2.	77.		2 77.8	3 -2.	2 71.6	-1.	7 59.6	6 -3.	0 52.	7 +0. 7 +1.	4 44.	4 +0.	2 61.	0 -0

The departures from the normal temperature are computed only for such stations as have ten or more years of record. Reference letters (\*, \*, \*), appearing in the table indicate number of days missing: For example, \*represents two days missing, etc.

# WEATHER BY MONTHS.—Continued. (CONTINUED FROM PAGE 49.)

snowfall occurred in the higher elevations on the 3d, 4th, and 5th, and scattered snow flurries were reported on the 13th, 15th

March. -Summer heat prevailed during the last decade, when maximum temperature records were broken at several western stations. Temperature and precipitation averaged considerably above normal. Three tornadoes and a wind squall killed nine and injured 12 persons, with about \$50,000 property damage. One person was killed by lightning. Flood damage in the main river systems during late February and March approximated \$389,850, and movable property saved by flood warnings was estimated at \$368,312.

April.—Both temperature and precipitation averaged above normal. Woods were generally green by the 9th. Approxi- and lightning caused about \$203,100 damage.

mate damage by lightning, hail, and wind, \$26,200. Two to nadoes killed seven and injured nearly 50 persons, with pr perty damage estimated at \$107,000.

May.—The mouth was abnormally cool, and the month highest temperature equaled previous lowest May maximu temperature records. A general windstorm on the 2d damag sprouting crops about \$900,000, and a local wind squall on t 18th caused further damage of about \$500.

June.-The month was decidedly cool, on the whole, wi precipitation somewhat above normal. Lightning caused t death of one person, and losses from storm stress approximate \$4,000.

July.—The weather was rather dry and cool. Four perso were killed by lightning, and three were injured. Damage l lightning, hail, and wind squalls approximated \$66,500.

August. - This month was also notably dry and cool. He

September.—Incident to hurricane rains of 6 to over 12 necessin the western counties about the 26th and 27th, the verage precipitation was very much above normal, and the nonth closed with the rivers rising rapidly. The temperature veraged somewhat below normal. One tornado injured three erons and caused property damage of about \$1,500. The rains rere followed by a record-breaking flood in the Savannah River to ugusta, Ga.

Octo or.—Additional Incricane rains, culminating about 1st and 2d, caused widespread damage by wind, heavy ins, and floods approximating \$3,828,585; of this amount, cout \$1,800,000 represented crop damage. The flood waters Augusta again rose above the record flood crest prior to the werd were injured. One person was killed by a tornado, and veral were injured.

November.—Precipitation was much above normal, and the perage cloudiness was the highest in November of record. In more attention was somewhat above the average; there were two ther prolong periods of heat and three short cold periods, as month closed with record-breaking low temperatures at any central and western stations. One person was killed by thining, and five were injured. Snow flurries, sleet, and glaze forms occurred at many stations on the 22d and 23d. The goods were generally bare by the 24th.

December.—Temperatures were somewhat below normal, o periods of unusual heat being offset by two periods of abunal cold. Precipitation was above normal. Measurable owfall occurred in the higher elevations on the 22d. Glaze ditions prevailed in the region about Due West on the 2d, a general glaze storm occurred over the central and upper unties on the 22d.

COMPARATIVE DATA FOR SOUTH CAROLINA.

	1	Comperati	ire.	Preci	pitation	Ave	rage nun days.	nber of	ing irec-	
Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly Cloudy.	Cloudy.	Prevailing wind direc-	tion.
	62.4 62.4 63.4 63.2 63.3 63.7 7 64.2 63.4 63.4 63.5 62.5 62.5 62.5 62.5 62.5 62.7 63.3 63.7 7 64.2 63.3 63.2 62.7 63.3 63.2 62.5 62.5 62.5 62.5 62.5 62.5 62.5 62	108 102 104 104 105 105 105 104 107 106	5 13 13 13 13 13 13 13 13 13 13 13 13 13	43, 43, 43 54, 637 42, 75, 75, 75 57, 62, 63 58, 68, 68 50, 78 51, 68 51,  101 104 105 86 86 86 96 90 107 95 96 96 106 103 99 107 99 107 99 109 99 109 99 119 119 119 98 98 98 98 98 98 98 98 98 98 98 98 98	164 163 168 168 168 167 167 167 167 169 169 169 169 169 169 169 169 169 169	123 116 119 102 1110 110 110 110 110 110 110 110 11	888 956 844 1051 1109 994 1044 1049 1093 755 833 733 733 734 1193 994 1049 1049 1049 1049 1099	SW. SW. SW. SW. SW. SW. SW. SW. SW. SW.		

† Also other directions.

-11

62.3 62.9

MONTHLY AND ANNUAL CLIMATOLOGICAL DATA FOR SOUTH CAROLINA, YEAR 1929.

August	_																	
1	6		Te	emper	atur	3,	l'r	ecipitat	don.	Relative	humidity.	52		Nur of d	nba			Ind. pAne.
January 46, 7 +1, 2 82 15 4, 01 +0, 46 7, 16 82 65 71 54 10 14 6 1 Rebrury 36, 3 -2, 1 82 12 7, 85 +3, 44 11, 42 84 (8 72 44 11 16 51 15 71 16 16 16 16 16 16 16 16 16 16 16 16 16		Months.	Mean.	Departures.	Highest.	Lowest.	Average.	Departures.	st	8	· p b	Jo	tainy.	lear.			Average hourly velocity.	Prevailing direction.
		Rebruary March April May June July August September October November December	45. 3 57. 6 63. 7 69. 1 74. 8 77. 8 78. 0 72. 6 61. 1 54. 7 46. 0	$\begin{array}{c} -2.1 \\ +2.8 \\ +1.4 \\ -1.8 \\ -2.7 \\ -1.9 \\ -0.9 \\ -1.8 \\ -2.5 \\ +1.0 \\ -0.5 \end{array}$	82 93 92 94 100 100 101 97 88 90 81	15 12 20 38 32 46 49 50 39 82 2 5	7, 85 7, 59 4, 30 6, 46 5, 73 4, 35 3, 18 7, 36 7, 31 3, 85 4, 14	+0.46 +3.44 +3.61 +1.20 +2.81 +0.88 -1.55 -2.65 +3.18 +4.27 +1.56 +0.61	7, 16 71, 42 12, 57 7, 47 13, 61 11, 68 8, 49 8, 70 16, 53 12, 69 9, 22 6, 24	82 65 84 68 79 57 77 54 81 60 82 59 83 59 84 60 88 68 80 56 85 66 83 63	71 72 65 61 70 72 74 73 70 69 75	54 -14 -63 -69 -65 -66 -64 -68 -48 -68 -46 -61	10 11 11 8 11 10 7 13 6 10 7	14 10 15 16 14 13 13 16 10 18 12 18	65 78 8 8 8 12 8 7 5 4 5	11 13 9 6 9 6 7 13 8 14 8	7.7 6.8 9.0 7.8 7.2 5.9 5.5 6.7 7.5 6.9 6.7	ne. ne. s. sw. sw. sw. ne. ne. ne. w.
	l	i						12700	10.00	02 61	10	60	110	169	00.	110	6. 9	ne.

<sup>\*</sup> From 43-year averages.

# KILLING FROST OR FREEZING TEMPERATURE DATES AND GROWING DAYS.

,		1	1929.	A	verag	ges—all re	(0)	rds.
9	Stations.	Last in spring.	First in		ng	First autumn date.	No. of	grow- ing days.
9	EASTERN PORTION.	1	-	11			1	
,	Beaufort (near) Blackville Charleston	Meh 16		Meh	. 20	Dec. 1 Nov. 12	1	280 237
	Conway	Meh. 18	Nov. 6	Meh Meh	. 29	Dec. 10 Nov. 3 Nov. 8	1	293 219 230
•	Darlington	Meb 11	Nov. 30	Meh	. 28	Nov. 2 Nov. 7		216 224
	Georgetown	Meh. 3	Nov. 30 Nov. 30			Nov. 11		233
	Kingstree. Marion Orangeburg.	Moh 18	Nov. 30 Nov. 6	Mch	. 16	Nov. 15		244
	Pinopolis	Feb. 6	Nov. 30 Nov. 30 Nov. 6		. 6	Nov. 12 Nov. 26 Nov. 8		237 265 231
	Summerville	. Meh. 11	Nov. 30 Nov. 30	Meh.	15	Nov. 14		244
ı	Wedgefield Yemassee	. Mch. 11	Nov. 30 Nov. 30	Mch.	22 13	Nov. 19 Nov. 12		242 244
	Normal Averages for 1929	Meh. 5	Nov. 26	Meh.	17	Nov. 13		241 268
	Western Portion. Aiken	Meh. 10	Nov. 30 Nov. 23	Meh.		Nov. 18		247
	Calhoun Falls.	May 3	Nov. 5 Nov. 6	Meh.	27	Nov. 5		223
	Camden Cherokee (near) Chester	Meh. 18	Nov. 80 Nov. 5	Meh.		Nov. 11		245
	Clemson College	Meh. 18	Nov. 6 Nov. 5 Nov. 6	Apr. Mch.	2	Nov. 3 Nov. 18	• • •	215 245
Ш	Due West Greenville Greenwood	Mob II	Nov. 29 Nov. 22	Meh. Apr.	21	Nov. 10 Nov. 2		234 213
	Heath Springs	Mch. 10 Mch. 18 May 3	Nov. 6 Nov. 23	Meh. Meh.		Nov. 8 Nov. 4		228 220
	Kershaw Landrum	Mch. 18 Mch. 11	Nov. 6 Nov. 3	Meh.		Nov. 8 Oct. 27		224 201
ı	Laurens Little Mountain Newberry	Mch. 18 Mch. 11 Mch. 18	Nov. 6 Nov. 6	Meh.	25	Nov. 11		231
20.70	SaludaSantuck	Meh. 18 Meh. 18	Nov. 6 Oct. 26	Apr.	5 (	Nov. 4 Det. 26 Det. 31		219 204 211
1	Spartanburg Crenton Valhalla	Mch. 18 Mch. 11	Nov. 6 Nov. 30	Meh. 3	30 1	Nov. 14		216 238
- 1	Vinnsboro Vinthrop College	Mch. 18 Mch. 11 Mch. 18	Nov. 5 Nov. 30 Nov. 6	Mch. 2 Mch. 2	7 1	Oct. 29 Nov. 12 Nov. 5		204 230 221
	Normal Averages for 1929		Nov. 14	Meh. 2		vov. 7		225 240
	Section Normal Section averages for 1929	Meh. 13	Nov. 19	Meh. 2	3 N	ov. 10		232 251
		C11+ 1O	2.0Y. 10					201

Note.—Killing frost data in above table determined according to the following standard: Last or first clear or partly cloudy day with temperature of 22° or lower and last or first cloudy day with 13° or lower, but without rain, sleet or snow; in case of precipitation, then the next preceding or succeeding day with proper temperature and weather was used. The average number of growing days is the difference between the average spring and autumn killing frost dates.

### MAP SHOWING LOCATION OF OBSERVATION STATIONS.



KEY TO SYMBOLS.

- Meteorological observations. (Regular Weather Bureau Stations, including Greenville.) 0
- Meteorological observations. (Sub stations.) 0

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

XXXIII. COLUMBIA, S. C., JANUARY, 1930.

### GENERAL SUMMARY.

The mouth, on the whole, was milder than usual, and preution averaged considerably above normal.

Moderate temperatures prevailed generally during the half of the mouth, with conditions fairly typical of winter ng the latter half. Hardy truck and winter cereals showed ically seasonable development, although wheat sowing lelayed materially by rather poor plowing conditions in nterior. White potato planting began on the lower coast rd the end of the month, and spring truck had made onable advance. Much hog killing was done. Forests and vegetation showed no perceptible quickening, except along coast.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 lar Weather Burean stations in and surrounding the Sec-, was 30.23 inches. The highest pressure was 30.76 inches at West on the 5th; the lowest pressure was 29.78 inches at eville, N. C., on the 14th, and in the Section proper, 29.82 es at Charleston on the 15th and at Columbia on the 16th.

### TEMPERATURE.

The monthly mean for the Section, determined from rets of 42 stations, was 46.9°, or 1.4° above the normal. The nest temperature was 80° at Garnett on the 2d. The warm iods were from the 1st to 3d, 6th to 15th, about the 22d, on the 27th and 28th, with daily mean temperatures rangfrom 5° to 25° above normal. The lowest temperature was at Caesar's Head on the 17th. The cold periods were on 4th and 5th. from the 16th to the 21st, 23d to the 26th, 1 29th to 31st, inclusive, with daily mean temperatures ging from 5° to 18° below normal.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 mlar Weather Bureau stations in and surrounding the Seen, was as follows: 8 a.m., 85%: noon, 67%: 8 p. m., 72%. e highest percentages occurred along the coast, and the lowest, the interior.

### PRECIPITATION.

The average for the Section, 54 stations reporting, was 46 inches, or 0.89 inch above normal. Precipitation ocrred in five rather distinct periods, principally from the iddle to the last of the month. The amounts were irregularly

distributed, with less than 3 inches along the middle coast and in small areas of the northern counties, while in the major part of the Section the measurements ranging from 4 to over 7 inches. The greatest local monthly amount was 7.50 inches at Ferguson; least local monthly amount, 2.37 inches at Charleston. The greatest amount during any 24 hours was 2.07 The average number of rainy inches at Saluda on the 14th. days was 38% above normal.

Sleet or snow flurries were reported from a few northern stations on the 18th and 23d, and glaze and sleet or snow were quite general throughout the Section on the 29th, 30th and 31st, but measurable amounts of snow ranging from 0.1 to 11.7 inches, occurred in the central and northern counties.

### WIND.

The prevailing wind was from the northeast. The average hourly velocity, determined from 9 anemometer records, was 6.9 miles. The highest velocity for any 5-minute period was 42 miles per hour from the east at Charleston on the 29th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 155.3 hours, or 49% of the possible amount. The average number of clear days was 13; partly elondy, 5, and cloudy, 13, as against normals of 13, 7, and 11 days, respectively.

### RIVER CONDITIONS.

The Santee River was in moderate flood at and below Rimini after the 16th. The Pee Dee River was above flood stages at Mars Bluff from the 19th to the 25th, and at Poston, The Black River was in from the 22d to the 27th, inclusive. flood at Kingstree from the 24th to the 26th, inclusive.

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Columbia, 10, 14, 16; Due West, 14; Greenville, 8. Solar: Charleston, 25; Columbia, 27; Due West, 1, 7, 8, 16, 17, 25; Walhalla, 5.

Fog, dense.—Beaufort (near), 12, 13, 14, 27; Calhoun Falls, 8, 9, 10; Catawba, 8, 9, 10; Charleston, 13, 14, 21, 22; Cherokee (near), 8, 9, 10; Clemson College, 9: Columbia, 8, 21, 22, 23, 24, 28; Georgetown, 12, 13; Due West, 8, 10, 31; Greenville, 8, 9; Laurens, 8; Landrum, 13; Pelzer, 7, 9; Sumter, 24; Trenton, 8, 13.

## MISCELLANEOUS DATA FOR JANUARY, 1830.

	sea	Temp	eratu es Fa	re, dir.	Preciption tion	1,	Win- 8-cup A	d. nem.	re	leau lativ nidit	e y.	e of pos nshine.
Stations.	Barometer, a level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage of po
Asheville, N. C Augusta, Ga Charleston, S. C. Charlotte, N. C. Cohmbia, S. C Due West, S. C Greenville, S. C Savannah, Ga. Wilmington, N. C. Means and ex. } tremes.	30, 25 30, 23 30, 22 30, 24 30, 24 30, 26 30, 22 30, 20 30, 24 30, 23	39.8 49.6 51.2 44.0 48.0 44.8 44.6 53.0 48.8 47.1	71 76 73 73 76 75 76 77 75	11 26 29 22 24 23 22 30 25	1. 48 5. 31 2. 37 3. 90 3. 35 3. 05 4. 18 3. 59 3. 69 8 44	0.79 2.83 0.62 1.24 1.38 0.69 1.27 1.04 1.18 2.83	8.7 4.4 8.8 4.6 5.6 7.3 6.8 10.0 5.5	se. nw. n. ne. ne. ne. ne. ne. ne. ne.	82 84 87 85 85 87 78 86 92 85	64 60 73 66 62 66 66 69 74	66 65 78, 69 68 71 73 83	42 63 50 45 40 58 47 45 53

WW

Climatological Data for January, 1930.	Climat	cological	Data for	January.	1930.
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			( , )		Clima	tolog	icai .	Data.	101	Janu	ary,	1800.								
			record,	7	rempera	ature, i	in deg	rees F	ahr.		Precip	oitation,	in inc	hes.		ber o	f da	ıys.	etion	
Stations.	Counties.	Elevation, feet.	Length of re	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelled.	With precipition (0.01 in. or more)		Partly cloudy.	Cloudy.	Prevailing direction or wind.	Observers.
Eastern Portion.											1	-				1				
Beanfort (near) ‡‡ Black ville Churleston	Beaufort	21 296 48 144	49 46 59 48	52.0 50.3 51.2 47.0	+0.4 +2.8 +1.3 +3.1	76 77 73 78	† 9 10 9	29 25 29 18	30 †24 30 31	36 30 23 43	3. 43 5. 90 2. 37 4. 18	$^{+0.66}_{+2.79}$ $^{-0.65}_{+1.06}$	1.06 1.40 0.62 0.94	T. T. T. 2.5	11 11 13 12	15 13 11	5 7 4	11 11 16	s. n.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway Darlington Ellingham Ferguson##	Horry Durlington Florence Orangeburg	25 175 106 63	40 35 39 44	49. 6 46. 1 49. 6	+1.5 +0.7 +2.4	78 78 	10 † 8 	25 20 25	31 31 31	42 38  39	4. 40 4. 50 5. 52 7. 50	$^{+0.89}_{+1.58}$ $^{+2.02}_{+3.91}$	0.92 0.78 1.62 1.62	0. 4 1. 0 0. 5 T.	15 11 10 11	15 13	0 3 	16 15 	ne.	Paul Quuttlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Florence	136 136 82 18 54	15 12	46.8 h50.8 49.0 50.0	+1.3 +0.6 +0.2 +2.2	78 <sup>b</sup> 80 75 78	9 2 14 8	21  <sup>b</sup> 23 25 26	24 †26 30	88 647 88 89	3.72 4.84 4.21 2.52 5.53	+0.69 +1.81 +1.75 +0.82 +2.17	1.09 1.05 0.87 0.42 1.42	2.0 2.0 T. T. T.	8 10 11 12 10	18 15 15 13 13	5 4 6 1	13 11 12 12 12 17	ne. s. n. w.	H. K. Gilbert, Pee Dee Experiment Sta. Maner B. Robert. Brooklyn Cooperage Co, Mrs. Ellen Scott.
Marion Mars BluffOrangeburg Pinopolis Rimini	Marion Florence Orangeburg Berkeley Sumter	68 92 264 54 97	14 83	47. 4 49. 8 49. 6	+2.9 +1.8	79 76 78	10 9 † 8	21  25 27	31 30 25	43 89	6.54 5.74 5.78 3.65 6.43	+2,40 +0,53 +2,66	1.70 1.46 1.54 1.50 1.88	2. 0 1. 0 0. 5 T. T.	9 13 12 10 8	14 	9 0	13 15 21	n. ne. sw.	Alden F. Sehell. kosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel. Floyd C. Martin.
Society Hill Summerville Sumter Wedgefield Yennssee	Darlington Dorchester Sumter	169	32 6 40	45. 4 49. 4 48. 4 46. 6 51. 2	+1.3 -0.1 +0.5 +1.5	78 78 76 69 78	† 8 9 † 2 15 9	19 26 22 24 24 24	31 †26 31 †30 †26	42 44 41 38 43	3, 08 4, 16 4, 49 4, 90 4, 46	-0.09 +1.01 +1.28 +1.64	0.65 0.81 1.03 1.00 0.88	1. 4 T. 1. 5 0. 5 T.	11 11 12 12 10	17 15 10 17 16	1 2 8 2 2	13 14 13 12 13	n. ne. ne. ne.	E. D. Fields, Jr. Clemson Coast Exp. Sta. Sumter Water Dept. W. Humpton Ramsey W. C. Hutson.
Division means and	extremes			49.0	+1.2	80	2	18	31	47	4.69	+1.62	1.70	0.7	12	13	4	14	ne.	
Western Portion.																				
Aiken Anderson Blairs Cesars Head ## Calbonn Fulls. Camden	Anderson	527 76: 298 3118 508 222	37 3 25 6 6 8 81	50. 2 45. 5 37. 1 45. 4	+1.3	76 76 69 78	9 10 10 10	28 23 10 20 21	24 30  17 25 31	30	5.08 4.69 5.24 4.11 3.28 4.91	+1.39 +0.26 +1.46 -0.96 +1.38	1.35	1.0 4.0 3.0 8.0 2.0 2.0	11 8 12		1 4  6 5	18 15 18 15	ne. w.	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Casar's Head-P. Mtn. Co L. M. Parker. Henry A. Brown.
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Division means and Section means and	(										4. 29						١		1	

The departures from the normal temperature and precipitation are computed only for such stations as have two runors years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. f also on other dates. If Received too late to be included as a summaries. "Temperature data are from observed readings of the day bulb; means are completely expected to late to be included to the stations are as follows: Of Gaston Shoals, Blacksburg; of Winthroo College, Rock Hill; of Ferguson, Entanyther and the following of the stations are as follows: Of Gaston Shoals, Blacksburg; of Winthroo College, Rock Hill; of Ferguson, Entanyther and the following of the station of the stations are as follows: Of Gaston Shoals, Blacksburg; of Winthroo College, Rock Hill; of Ferguson, Entanyther and the station of the stati

Daily Precipitation for January, 1930.

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Except as otherwise indicated, observations are generally made late in the afternoon, near smost, and precipitation recorded is for the 24 hours ending at the time of abservation. |||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the 4-hour period, midnight to midnight. \* Precipitation included in the next following measurement. [Separate dates of fails not recorded. T. Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR JANUARY.

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Heath Springs   Maximum   Minimum   Maximum	n l	41	45	54	27				•• •••					::::			:: ::::			48	51	49	42	53 5 26 2	3 60	61	60	39	49	57.4
Hoghack Mountain. / Minimum / Maximum Kershaw / Minimum	n	67	76	66	49	61	62 7 31 4	73 7 46 4	75 75 45 4 62 7 50 4	5 75 17 47 78 78 17 47	5 62 4 40 5 59	2 53 0 45 9 55 3 37	62 48 55	74 56 63	61 52 60 53	55 4 39 2 55 3 40 2	26 3 36 3	2 42 4 31 9 42 0 23	2 38 1 26 2 43 3 22	34 44 30	51 43 52 37	49 36 52 24	42 30 50 23	26 2 49 5 30 3	53 60 26 37 50 47 30 32	7 49 7 57 2 37	60 28 54 25	39 22 42 23	49 28 52 18	57. 4 37. 1 53. 7 34. 1
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Little Mountain / Maximu	m	88 68 40 68 88 69 31 69	5 72 8 38 5 73 0 45 8 74 5 43	8 45 8 67 5 49 4 63 3 43 0 69 0 52 2 64 8 49	5 50 25 52 7 25 8 26 9 55 2 25 4 50 9 21	62 24 50 25 53 23	34 4 62 6 29 4 62 31 60 6 30 6	69 46 79	50 4	49 49 74 7	9 3	9 34	49 60 4 45 4 65	52 66	55 64	39 58	24 2 41 4	11 40 23 25 41 4- 32 2 43 4 83 2 43 4 33 2	9 30	35 45 34	58 42	52 52 34	50	53 5	55 5 23 3	8 6	5 26	42 22	51 30	57. 5 25. 3
Newberry Minimu	m	35	5 42	63 49	26	23	31	47 65	45 4	43 4 68 7	5 4	2 27	7 48 3 60	55 64	64	63	49 4	13 4	4 44	45	55	53 34	47	50 24	51 5 22 3	6 59	5 31	23	28	35.7 56.7
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Spartanburg   Maximu	m	: 6	30 67 33 89 71 79 42 46 66 6 83 89 67 79 65 7	57 50 58 49 53 71 56 50 54 56 59 69 512 69 514 49	0 42 9 23 1 53 0 30 6 50	52 23 56 30 48 22 51 27 52 52 25	49 26 67 36	58 36 74 48 63 46 70 33 70 42	60 43 75 32 63	70 · 7 41 8 78 7 53 4 73 7 46 4 78 7 47 8 74 48	78 4 39 4 76 5 48 6 77 6	14 3 58 5	6 55 7 48 7 65 17 48 57 55 38 45	5 59 5 52 5 67 8 56 5 68 5 68 5 68	2 58 7 68 0 57 3 60 1 52 8 61 58 4 62 8 42	45 41 62 40 56 86	35 26 49 28 38 23 42 26	40 3 32 1 41 4 33 3 46 4 30 2 40 27 52	19 23 40 4 30 2	4 42 3 82 14 45 19 29 17 43 10 4 10 4 24 3 42 4 24 8	2 40 5 55 9 48 3 57 1 40 5 51 50 85 44 48 32 40	41 35 52 31 52 32 43 37 48 0 33	45 28 52 28 51 20 49 27 47 25	50 19 57 28 58 25 50 27 52 26	28 64 6 29 58 58 52 27 48 29	50 5 33 4 60 6 37 4 48 6 32 3 58 6 30 3 49 2	66 42 40 60 60 42 81 60 54 89 80 61 39 89 86 59 55 27 25	2 35 22 38 1 29 4 82 9 35 8 20 5 36	46 20 52 26 48 18 49 28 50 25	37.4
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Winthrop College } Minimu	m	. 3	39 4	14 4	28	25	30	42	40	40	"	- 1	1		sing:		-	-	1	1	1	1 1	, I	l	ate.	-	<u> </u>	-	<u>'</u>	-
		-		_			$\overline{}$	_	-				dove	miss	ding:	for ex	kamp	le, b	repre	esent	stwo	days	miss	dink.						

Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc. % Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 2-25-30-900

### U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU, CHARLES F. MARVIN, Chief.

# CLIMATOL QGICAL DATA.

SOUTH CAROLINA SECTION.

Vol. XXXIII. Columbia, S. C., Februar UNESSO, No. 2

### GENERAL SUMMARY.

The month was remarkably mild and dry. February maximum temperature records were equaled or broken at many stations about the 25th, the average hours of sunshine was far in excess of normal, the February average number of clear days Head on the 4th. The rainy days averaged one-half the normal. was broken, and but one previous February had a lower average rainfall.

The generally mild weather was favorable for winter cereals and hardy truck. White potato planting began on the coast during the first week, and preparation of tobacco beds began about the middle of the month. Winter oats had advanced sufficiently to afford good pasturage. The prolonged heat wave after the 17th, with record-breaking warmth culminating about the 25th, caused peach, pear, and plum buds to quicken prematurely, and, in most sections, these fruits were blooming rather freely toward the end of the month, with condition dangerous for withstanding the cold wave of early March. The soil was rather too hard for satisfactory spring plowing, but this work was progressing rapidly as the month closed.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was 30.16 inches. The highest pressure was 30.55 inches at Due West on the 17th; the lowest pressure was 29.58 inches at Asheville and Charlotte, N. C., on the 4th, and in the Section proper, 29.63 inches at Greenville on the same date.

### TEMPERATURE.

The monthly mean for the Section, determined from reports of 42 stations, was 51.6°, or 4.2° above the normal. The highest temperature was 88° at Yemassee on the 22d, or equal to the February maximum temperature records of 1918 and 1927. The warm periods were from the 2d to the 13th, with readings near or above normal, and from the 18th to the close of the month, when the daily means ranged from 5° to 24° above normal, with February maximum temperature records broken about the 25th at many stations throughout the Section. The lowest temperature was 12° above zero at Caesar's Head on the 16th. The cold periods were about the 1st and from the 15th to 17th, inclusive, the daily mean temperatures ranging from 5° to 14° below normal.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Sec-

1930 tion, was as follows: 8 a.m., 74%; noon, 50%; 8 p. m., 57% The highest percentages occurred along the coast, and the lowest,

### PRECIPITATION.

The average for the Section, 53 stations reporting, was 1.12 inches, or 3.21 inches below normal. But two stations reported rainfall in excese of 2 inches. The greatest local monthly amount was 3.93 inches at Caesar's Head, and the least local monthly amount was 0.52 inch at Aiken. The greatest amount during any 24 hours was 1.70 inches at Cacsar's

Scattered snow flurries and sleet occurred at a few up-State stations on the 15th.

### WIND.

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was The highest velocity for any 5-minute period was 30 6.8 miles. miles per hour from the north at Greenville on the 16th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 233.8 hours, or 76% of the possible amount. The average number of clear days was 20; partly eloudy, 4, and eloudy, 4, as against normals of 13. 6, and 9 days, respectively. The average number of clear days was the highest of record for February.

### RIVER CONDITIONS.

The Santee River was near or above flood stages at Rimini and points below throughout the month. The Pee Dee River was in flood at Mars Bluff from the 6th to the 12th, inclusive. All other streams had moderate stages only.

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 5, 6, 10; Columbia, 6, 10. Solar: Columbia, 7, 10; Due West, 17.

Fog, dense. - Beaufort (near), 12; Columbia, 13; Greenville, 3, 4; Winnsboro, 13.

### ERRATA.

January, 1930.—Trenton, prevailing wind direction should be southwest, and at Yemassee, from the northwest.

### MISCELLANEOUS DATA FOR FEBRUARY, 1980.

	, sea	Temi	perati res F	ire. alı <b>r</b> .	tio	ipita- n, hes.	Win 3-eup A		re	dear dati: midi	re	sage of pos
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible sunsi
Asheville, N. C	80, 17	41, 2	78	13	0. 67	0.26	7.3	nw.	75	48	58	71
Angusta, Ga	30, 15	54.8	83	29	0, 96	0.38	4.1	nw.	76	41	49	83
Charleston, S. C	30, 16	55.7	81	34	6, 81	0, 42	8.5	SW.	78	59	74	78
Charlotte, N. C	30 14	50, 6	82	22	0.92	0.58	4.7	S.	72	52	52	77
Columbia, S. C	80, 16	53, 4	83	27	0.65	0.20	6.0	SW.	78	41	46	69
Due West, S. C	30, 19	50,8	79	26	0.92	0, 57	7.4	sw.	78	48		80
Greenville, S. C	80, 14	50, 6	79	23	1.24	0, 98	7.0	SW.	62	52	49	74
Savannah, Ga	30.15	58.0	82	34	1.13	0 62	9.8	w.	78	54	64	68
Wilmington, N. C.	30.16	53. 2	81	25	0.88	0.30	6.0	SW.	78	53	69	82
Means and ex- (												
tremes	30, 16	52, 4	83	18	0.85	0.98	6.8	SW.	74	50	57	76

### Climatological Data for February, 1930.

			e		emperat							itation,	in incl	ies.	Num	ber o	day	vs.	e l	
Stations.	Counties.	on, fee	Length of record, years.	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	77	Total snowfall, unmelted.	With precipit on (0.01 in. or more)		riondy.	Cloudy.	Prevailing direction of wind.	Observers.
Eastern Portion.				1	1		1	1								- 1		4		
Beaufort (near) <sup>‡‡</sup> Black ville Churleston. Cheraw	Beaufort	21 296 48 144	49 46 59 48	56. 0 54. 5 55. 7 51. 8	+4.0 +6.0 +3.3 +6.4	83 84 81 86	†24 25 24 25	32 27 34 22	17 17 17 17	36 37 24 45	1.33 0.90 0.81 1.16	-2.06 -3.18 -2.17 -2.91	0.57 0.40 0.42 0.44	0 0 0 0	5 3 3 3	20 23 17	3 3 7	5 2 4	s. sw.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews IV. S. Wenther Bureau. Roland D. Powe.
Conway Darlington Efungham Ferguson‡‡	Horry	25 175 106 63	40 35 39 44	54. 4 51.4 52. 8	+6.0 +5.4 +4.6	85 86 85	25 25 28	25 22  28	17 1	44 42 44	0.88 0.57 0.76 0.76	-3.43 $-3.04$ $-3.95$ $-3.04$	0.52 0.45 0.60 0.27	0 0 0 0	3 3 4			3 6 	sw	Paul Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Georgetown	136 136 82 18 54	48 15 12 37 48	54. 6 51. 6 54. 2	+6.6 +1.0 +2.0 +6.4	85 80 83	25 †24 26 †24	24 24 25 26	1 1 1 1	41  44 86 42	0,69 0,80 1,56 0,59 0,84	-3.40 -3.29 -2.90 -3.44 -3.00	0.46 0.54 0.77 0.49 0.44	0 0 0 0	4 3 6 2 3	24 23 21 20 24	2 3 5 3 1	2 2 2 5 3	sw. s. sw.	11. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Brooklyn Cooperage Co. Mrs. Ellen Scott.
Marion††	Marion Florence Orangeburg Berkeley	68 92 264 54 97	5 7 14 83 16	52. 2 *54. 4 51. 9	+3.6 +2.1	85 *83 81	25 25 25	23 *38 27	1 1 1	45 *36	0. 22 0. 87 0. 80 1. 80 2. 10	2.65 -1.71 -1.44	0. 13 0. 55 0. 37 1.00 1.26	0 0 0 0	3 3 4 4 3	22 19 17	6 8	2  3 3	s. sw.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel. Floyd C. Martin.
Society Hill	Darlington Dorchester Sumter	192 75 169 249 24	39 32 6 40 41	°50.4 54.4 53.0 51.8 55.0	+5.2 +4.3 +3.3 +5.3	°85 86 84 82 88	25 26 25 24 22	°22 25 25 26 26 25	1 1 1 17 1	° 45 43 42 87 51	1. 02 1. 02 1. 06 1. 10 1. 59	-3.35 -2.90 -2.95 -1.96	0.55 0.50 0.24 0.80 1.07	0 0 0 0	3 5 4 3 2	27 21 21 24 20	0 0 5 1 4	1 7 2 2 4	n. ne. s. w.	E. D. Fields, Jr. Clemson Coast Exp. Sta. Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and				53.4	+5.4	88	22	22	1	51	1.05	-2.99	1.26	0	3	22	3	3	sw.	
Western Portion,																				
Aiken Anderson Blairs Cæsars Head‡‡ Calhonn Falls Canden	Fairfield	527 764 293 3118 508 222	37 25 6. 31	55. 5 51. 6 41. 6 51. 6 48. 6	+6.3 +6.1 +1.4	84 80 72 83 82	25 †24 †24 †24 24 25	26 25 12 25 21	17 16 16 1	40 37 34 40 39	0.52 0.80 0.80 3.93 1.02 0.87	-3.48 -4.36 -3.27 -4.34 -3.04	0.35 0.53 0.55 1.70 0.38 0.40	0 0 0 T.	4 3 5 4	24 20  11 16	0 0 10 4	8 8	ne. w.	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Casar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawha Chappells Cherokee (near) Chester Clenson College Columbia	Newberry Spartanburg Chester	562 402 758 487 850 351	25 2 8 38	47.8 49.8 53.4	+5.9 +5.2	83 82 83	25 25 25 25	20 20 27	†16	47 50 32	0. 98 1. 05 1. 01 1. 62 0. 65	-3.56 -3.08 -3.83 -3.12	0.58 0.41 0.82 0.95 0.20		3	22 21 16	3 9	4 8	ne.	James C. Faris. William Spearman. Spartanburg Water Works J. C. Cornwell. Prof. F. H. H. Culboun. U. S. Weather Burean.
Crescent.  Due West. Edgefield. Gaston Shoals [1]. Greenville. Greenwood.	Spartanburg Abbeville	680 711 680 1089 671	16 16 27 46	50. 8 50. 6 50. 6	+6.1 +7.3 +6.1	79 79 79 81	24  25 26	26  23 26	16  16 2	28	1. 66 0. 92 1. 54 0. 95 1. 24 1. 07	-4.24 -2.29 -3.55 -3.94 -3.69	1.32 0.38 0.98	T.	5 2 3 6	17 19 19	6  5 0	5 4 9	sw.	Broad River Power Co. U. S. W. B. Aerological Sta Agent C. and W. C. Ry. Southern Public Utilities. U. S. Wenther Bureau. M. M. Calhoun.
Henth Springs Hogback Mountain Kershaw Landrum Laurens	. Lancaster	568 8025 500 1063	28 5 4 6 14 7 15	51.6 49.0	+6.9 +4.1 +3.5 +5.9	81 84 83 82	24 25 25 25 724	22 15 24	17 i 12 † 1	44 43	1.06 0.78 1.05 0.99	-2.84 -2.96 -4.00 -4.04	0.43 0.81	т.	2	22 17 23 21	2 3 3 4	8 2 3	W. W. W. SW.	J. Marvin Bowers. Blue Ridge Forests Co. John W. Hamel. R. Hartwell Wilds, D.D.S. L. G. Roff.
Little Mountain. New berry Pelzer Saluda Suntuck	Newberry Newberry Anderson Saluda	711 502 850 536	2 26 0 26 6 28	50. 1	+5.0 +5.4 +3.2 +4.0	81 82  78 82	25 25 †25 25 25	22 23  22 19	17 17 17 17	42	0.80 0.63 1.22 0.66 0.64	-3.60 -3.71 -3.78 -3.87 -4.31	0.33 0.40 0.41	T.	0 6	18 21	2 4  7 3			Miss Alberta Sease. John H. Baxter. Joshus Y. Jones. W. S. Crout. E. W. Jeter.
Spartanburg	Spartanburg Edgefield Oconce Fairfield	. 620 . 106 . 51	0 37 1 30 5 36	54.8 47.9	+5.1 +8.1 +4.1 +3.2 +6.6	79 86 81 182 82	25 25 25 25 25 25 25	22 25 19 524 24	†17 17 17 †16	49 45 5 536 3 38	1.00 0.85 1.94 1.75 0.98	-4.07 -3.49 -2.58 -3.20	0.40 1.80 0.90 0.60	T	0 4	20 19 17 21	7 5 9 3	1 4 2 4	SW.	M. H. Daniel. Mrs. S. E. Long. II. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
	extremes	1	1	1	+5.4 +4.2	84 88	25 22	12	1	1	1. 13				- 1	1	5 4			

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. determining section or division means. Reference letters (\*, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. determining the reference of the days missing of the days missing are considered from observed readings. Illost-office addresses of these stations are as follows: Of daston shoots, Blacksburg; of Whithroof Cobbeg. Rock Hill; of Ferguson, Eutawille; of Crear's Head, Green(Hell; of Beaufort (near), Burton. § Observations taken from dry bulb thermometer at 7 a.m., 3 p.m. and 10 p.m. T Precipitation is less than 0.01 inch of rain or melted show.

### Daily Precipitation for February, 1930.

Photos	Dralmage.															Duy	of n	onti	١.														
Stations.	busins.	1	2	8	4	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	80	81	Total.
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ickville	Edisto				T.	. 20									. 30		. 40							qr I									0.90
eraw (li	Const				. 35	911										. 42																	0.81
nway	Witceaumw					.08									52		. 28																1.16 0.88
rlington III	Pee Dee					.08									0.																		
ingham III	Lynches												1												T.								0.57
rguson	Santee					.21									. 17		.27							11				Ť.					0.76
rence 111	Pee Deedo					1::									. 13		.145								OC			. 04					0,69
mett	Savannah				77	. 16									. 10	.50	. 54				• • • •			'n			. 16	T.	T.				0.80
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rion	ree Dee.				. 13									.01	. 50	.08	. 44																0.84
rs Bluff	do				T.	. 17									. 15		. 55								T.			Ť				1111	0.22
opolis	Edisto Cooper																										Ť.	T.	T.				0.80
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alui       iety 11i11	Santee					. 36									. 48		1.26																2.10
maerville	Pea Dee					. 37									10		55										1111						1.02
iiter	Ashley														. 03		.37								. 04								1.02
dgefield	do			1111	.20										. 10	80	. 07		• • • • •														1.06
Western Portion.	Ashepoo					1.07									. 10		.52																1.10
en	Edisto				17											05																	
lerson	Savannah Broad Salada				. 53									.08	14	. 55																	0.52
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nden ##	Sayanımlı Wateree				. 09	. 38		• • • • •		• • • •				• • • •	19	T.	. 36							T									1.02
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uwbu ##	Catawba					. 58									. 40																		0.98
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iton	Edisto			T.	. 40										.15	30								r'			T .		Ť				0, 85
lialla	Savannah			1	1.30									. 35		. 09								07			.09		.04				1.94
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Except as otherwise indicated, observations are generally under late in the aftermoon, near smust, and precipitation recorded is for the 24 hours ending at the time of severation. Ill Precipitation measured in the morning; amount them recorded is for the preceding 24 hours. \*\* Regular Weather Bureau station; precipitation is for the hour period, midnight to midnight. \* Precipitation included in the next following measurement.

### COMPARATIVE DATA FOR FEBRUARY.

	Te	emperati	ire.	Precip	itation.		e num days.	ber of	illing direc-		Te	mperatr	ıre.	Precip	itation.	Averag	ge nnm da.ys.	her of	ing irec-
Vear.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind c	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di
	52. 6 49. 9 41. 9 56. 1 54. 7 49. 2 51. 0 48. 9 37. 4 48. 2 48. 2 44. 0 44. 0 44. 0 45. 2 46. 0 45. 9 46. 0 46. 0 46. 0	80 76 75 83 83 78 82 76 78 81 88 80 78 78 78 78 76 81 86 76 81 86 86 87 88 88 88 88 88 88 88 88 88 88 88 88	24 15 10 21 13 18 25 16 - 6 5 15 10 -11 1 7 11 11 11 11 12 16 11	3. 41 4. 83 5. 60 2. 38 4. 23 3. 64 5. 05 4. 35 3. 07 6. 13 7. 80 0. 86 6. 98 5. 77 3. 08 5. 77 3. 08 5. 77 3. 08 5. 77 3. 08 5. 25 5. 25	12 10 8 12 10 7 7 8 11 13 12 10 6 8 8 10 9 9 9 9 6 8 8 10	8 13 13 10 15 9 9 14 12 12 10 16 10 14	9687677764586	11 9 8 8 11 7 12 2 7 10 11 11 14 4 7 10 9	"No. *W. SW. *SW. *SW. SW. SW. SW. SW. W. W. HW. SW. ne. ne. ne. ne. w. W.	1910. 1911. 1912. 1918. 1914. 1916. 1917. 1916. 1917. 1918. 1919. 1920. 1922. 1923. 1924. 1925. 1926. 1927. 1928.	42.8 49.4 52.6 44.8 44.2 52.4 49.3 57.6 46.2 45.3 51.6	79 85 80 80 80 80 80 87 87 87 87 87 87 84 82 9 80 88 88 75 88 88 88 88 88 88 88 88 88 88 88 88 88	15 20 8 22 14 20 11 2 11 17 8 19 14 11 13 19 12 20 13 14 11 13 19 12 20 11 11 12 20 11 11 11 11 11 11 11 11 11 11 11 11 11	4.71 1.60 5.99 4.50 4.41 3.15 3.96 4.11 1.89 4.73 4.05 4.73 6.62 3.83 3.54 1.69 4.24 5.05 1.12	9 55 8 8 9 6 6 8 8 7 10 8 9 10 8 7 7 6 9 9 11	12 13 15 12 12 12 15 17 14 14 14 12 12 18 14 15 15 15 14 14 10 20	695466677457845465454	100 77 99 122 100 77 66 77 100 122 122 100 99 97 99 111 118 4	W. SW. W. W. D. SW. SW. SW. HW. W. W. W. W. W. W. SW. W. SW. W. SW. W. SW. W. SW. W. SW. S
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\*Also nw.

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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

M Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 3-24-30-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA. TH CAROLINA SECTION. AFR tion as to area and amounts. The monthly amounts ranged grow 4 to over 6 inches in most of the low country and extreme

SOUTH CAROLINA SECTION. ARREST JL. XXXIII.

tion averaged somewhat below normal.

Precipitation at rather frequent intervals was generally neficial, softening the soil for spring plowing, which made od progress, although the rainfall was overabundant in sce-ons of the upper coastal plain. The relatively low temperares, especially at night, retarded germination of planted ring crops to some extent and delayed spring planting, siting warmer weather. Winter cereals maintained gener-y healthy condition. Considerable damage to open fruit ooms resulted from freezes in the central and northern counduring the first week, but unopened buds appear to have caped much injury. White potato planting continued, with od stands in the coastal counties. Harvesting of a fine ality of asparagus began during the latter part of the month, d tobacco beds were in fair growing condition. Wild vegetion was rather backward for the season.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 gular Weather Bureau stations in and surrounding the Secon, was 29.94 inches. The highest pressure was 30.41 inches at parlotte, N. C., on the 15th, and in the Section proper, 30,39 ches at Due West on the same date; the lowest pressure was .22 inches at Charlotte, N. C., on the 8th, and in the Secon proper, 29.27 inches at Greenville on the 7th.

### TEMPERATURE.

The monthly mean for the Section, determined from re-rts of 40 stations, was 50 9°, or 3 9° below normal. The ghest temperature was 80° at Conway on the 18th. The rm period was from the 7th to the 19th, inclusive, when e daily means were near normal and up to 11° above. The west temperature was 15° at Walhalla on the 3d. riods were from the 2d to the 4th and from the 20th to the st. inclusive, when the daily means ranged from 5° to 21° low normal. Late spring freezing temperatures were quite neral during the first week and at a considerable number of State stations at the close of the month.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 gular Weather Bureau stations in and surrounding the Secon, was as follows: 8 a.m., 75%; noon, 56%; 8 p. m., 60%. ie highest percentages occurred along the coast, and the lowest, the central interior.

### PRECIPITATION.

The average for the Section, 53 stations reporting, was 40 inches, or 0.57 inch below the normal. There were six irly well defined periods of precipitation, with poor distribu-

tion as to area and amounts. The monthly amounts ranged from 4 to over 6 inches in most of the low country and extreme not greater counties, and in the major portion of the northern counties the measurements ranged downward from 3 to less than 1 inch. The greatest local monthly amount was 6.32 inches at Ferguson, and the least local monthly amount was 0.63 inch at Darlington. The greatest amount during any 24 hours was 3.25 inches at Caesar's Head on the 5th. The average number of rainy days was 25% above normal. th two marked cold periods and one warm period. Preciphailstorm of moderate intensity occurred at Cornwell during the night of the 9th. There was no snowfall.

### WIND.

The prevailing wind was from the west. The average hourly velocity, determined from 9 anemometer records, was 8.8 miles. The highest velocity for any 5-minute period was 38 miles per hour from the west at Due West on the 25th, from the west at Greenville on the 2d, and from the northwest at Savannah, Ga., on the 2d.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 221.6 hours, or 59% of the possible amount. The average number of clear days was 15; partly cloudy, 6, and cloudy, 10, as against normals of 14, 8, and 9 days, respectively.

### RIVER CONDITIONS.

The Santee River at Rimini and points below was close to or somewhat above flood stages throughout the month. Fair stages were reported from other streams.

### MISCELLANEOUS PHENOMENA (dates).

Last killing frosts or freezing temperatures.—3d, 1 station; 4th, 4; 5th, 9; 6th, 7; 23d, 2; 24th, 1; 26th, 2; 27th, 3; 28th, 1; 31st, 11.

Halos-Lunar: Charleston, 13; Columbia, 10, 13, 15, 16; Due West, 13; Greenville, 13; Santuck. 14; Walhalla, 13. Solar: Columbia, 5, 6, 10, 13, 15, 16; Due West, 10, 13, 27, 30; Greenville, 6, 15, 16, 27; Walhalla, 21.

Fog, dense. - Due West, 17, 18; Greenville, 1, 2, 18.

### ERRATA.

February, 1930.—Clemson College, mean temperature, page 6, should be \*49.9, and mean minimum temperature, page 8, should be \*34.6.

### MISCELLANEOUS DATA FOR MARCH, 1930.

	sea	Temp	perati	ire, uhr.	tio	pita- n, hes.	Win 3-cup A		re	dean lativ midi	e e	age of pos- sunsnine.
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage of sible sunsni
Asheville, N. C Augusta. Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Sayanmah, Ga Wilmington, N. C Means and ex-l	29, 93 29, 95 29, 95 29, 91 29, 95 29, 96 29, 91 29, 96 29, 94	43. 0 52. 8 54. 8 48. 8 51. 5 48. 6 48. 6 55. 3 52. 1	68 74 72 72 73 71 70 76 72	12 26 29 20 24 21 20 29 27	1. 66 4. 08 4. 17 2. 45 2. 31 2. 96 3. 51 4. 22 2. 98	1. 05 1 35 1. 41 1, 69 1. 05 1. 47 2. 62 1. 38 1. 24	8.8 6.4 10.1 6.4 8.3 10.7 8.9 12.2 7.7	nw. nw. w. sw. sw. sw. w. w.	77 75 72 70 74 77 75 77 79	50 51 58 55 48 52 61 63 68	55 55 66 55 52 60 63 71	55 63 58 65 57 64 62 46 64
tremes	29 94	50.6	76	12	3 15	2.62	8.8	w	75	56	60	59

Climatological Data for March, 1930.

					Clim	atolo	gical	Dat	a for	Ma	rch, 1	930.								
			record.	7	Tempera	ature,	in deg	rees F	ahr.		Preci	oitation.	in inc	hes.	Num	ber o	f da	ys.	direction	
Stations.	Counties.	Elevation, feet.	Length of re-	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall. numelied.	With precipit on (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
Eastern Portion.																				
Beaufort (near) ‡‡ Black ville Charleston	Beaufort	21 296 48 144	49 46 59 48	54.6 52.6 54.8 51.5	$ \begin{array}{r} -4.1 \\ -5.1 \\ -2.6 \\ -2.3 \end{array} $	74 74 72 77	21 13 1 17	29 25 29 21	3 3 4	30 35 28 44	4. 91 6. 27 4. 17 2. 30	+1.59 +2.96 +1.15 -1.24	1. 12 1. 50 1. 41 0. 87	0 0 0 0	10 12 13 9	15 12 10	6 12 8	11 7 18	W. W. W.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway  Darlington  Ethoghum  Ferguson <sup>‡‡</sup>	Horry	25 175 106 63	40 35 39 44	54.0 551.0	-2.6 -4.7	80 675	18 18	24 b22	4 4 3	39 b37	4. 08 0.63 3. 07 6. 32	+0.52 $-2.33$ $-0.72$ $+3.08$	1.30 0.33 0.86 1.84	0 0 0 0	13 5 9	18 18	0 4	13 9 	SW	Paul Qunttlebrum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence I	Florencedo	136 136 82 18 54	12 37	51.9 53.0 52.2 54.0	-3.9 -6.0 -5.5 -2.9	76 78 70 75	18 18 † 1 18	23 25 26 26 26	4 † 4 † 3 3	87 45 34 37	1. 91 2. 26 4. 32 4. 24 5. 85	-1.41 $-1.06$ $+0.59$ $+0.77$ $+1.96$	0.47 0.62 0.90 0.94 1.30	0 0 0 0	8 14 12 11	15 14 17 15 19	10 7 5 4 2	6 10 9 12 10	w. w.	H. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Brooklyn Cooperage Co. Mrs. Ellen Scott.
Marion Mars Bluff Orangeburg Pinopolis : Rimini	Marion Florence Orangeburg Berkeley Sunter	68 92 264 54 97	14	54. 4 54. 2	-3.2 -2.6	77 78	20 †16	25 29	3 4	39	2.65 5.80 4.63 3.56	+2.22 +1.05 +0.18	0.78 1.15 1.28 0.85	0 0 0 0	10 13 13 10	8 13	10 9	13 9	w.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel. Floyd C. Martin.
Saciety Hill		192 75 169 249 24	32 6 40	50.6 52.8 52.4 53.6 58.5	-8.7 -5.6 -2.0 -4.6	77 75 72 75 76	18 †13 †16 16 16 18	21 26 23 25 26	† 3 3 3 † 3	42 35 36 83 42	2.55 5.28 3.26 3.40 4.11	-0.77 $+1.98$ $-0.01$ $+0.67$	0.70 1.14 1.05 1.25 0.76	0 0 0 0	10 15 12 9 12	18 13 19 15 14	3 2 5 7 2	10 16 7 9 15	w. nw w. w. nw.	E. D. Fields, Jr. Clemson Coast Exp. Sta. Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and				53.0	-3.6	80	13	21	4	45	8.87	+0.37	1.84	0	11	15	6	10	w.	
Westera Portion.																			11W.	
Alken Anderson Bluirs Cæsars Head‡‡ Calhoun Falls Canden	Aiken Anderson Fairfield Greenville Abbaville Kershaw	298 3118 508	37 25 6 8 81	52. 6 49. 2 49. 5 49. 3	-3.0 -4.9 -5.1	74 72  74 76	†13 †13  †13 18	28 19  21 21	3  † 3 3	36 39  38 38	3. 13 3. 15 3. 02 5. 21 3. 22 2. 72	-0.82 -1.37 -0.68 -1 64 -0 97	0.44 3.25 1.91	0 0 0 0	7 9 10 7 6 14	19 20  8 17	0 1 10 4	12 10 13 10		Frank B. McCoy. H. H. Russell. Sarah L. Owens. Cresar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawin Chappells Cherokee (near) Chester Cleuson College Columbia	Spartanhurg Chester	56: 40: 75: 48' 85: 85:	2 25 8 2 7 8 0 38	48. 0 47. 8 51. 5	-4.9 -3.7	74 78 78	19 21 13	18 16 24	† 3 3 3	43	2.53 2.31 2.42 3.63 3.61 2.31	-1.58 -1.58 -1.58 -1.10	0.88 1.85 1.50 2.40	0	5 8 7	19 16 15 14	5 5 5 8	7 10 11 9	sw. ne. sw.	James C. Faris. William Spearman. Spartanburg Water Works. J. C. Cornwell. Prof. F. H. H. Calhonn. U. S. Wealher Bureau.
Crescent. Due West Edgelleld †† Gastan Shoals †† Greenville. Greenwood	Spartanburg Abbeville	. 71 . 68 . 103	1 16 16 0 27 9 46	48. 6 48. 6 48. 4	-1.3	70	21 18 †14	21 20 21	3	29	3. 06 2. 96 3. 28 2. 32 3. 51 2. 55	-1.6	1.71 1.50 2.62	0	12 6 7 9	12  12 12 16	9 0	10 15	w. w.	Broad River Power Co. U. S. W. B. Aerological Sta Agent C. and W. C. Ry. Southern Public Utilities. U. S. Weather Bureau, M. M. Calhoun.
Heath Springs Hogback Mountain Kersinw Landrum Laurens	. Kershaw Spartunburg	. 106	5 4 0 14 3 15	48.9 49.6 49.2 *50.5	-5.4 -2.4	75 74	19 13 18 19	21 18 *20	3 4 8 8	39 39	2.51 2.52 2.60 3.12		0.76		7 7 8	18 16 15	2 9 10	16 6 6	W. W. 11W.	J. Marvin Bowers. Blue Bidge Forests Co. John W. Hannel. R. Hartwell Wilds, D.D.S. L. G. Roff.
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Spartanburg Trenton Walballa Winnsboro Winthrop Callege ‡‡	. Edgelield	. 106 . 54	0   37 1   30 5   36	51. 8 47. 9 48. 9	-4.4 -3.6 -4.9	78 75 72 74	13	22 15 18 19	200	3 37 3 41 4 34 3 89		+0.00 -1.20 -1.1 -0.5	9 1.05 3 2.75 4 1.1 8 1.5	7	) 11 0 10 0 18 0 9	11 15 14 13	0 9 6 7 14	10 10	sw. sw. w. sw.	. M. H. Daniel. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
Division means and Section means and			1		1						3. 46				0 10	X	6			

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (4, 9, 9), appearing in the table indicate number of days missing; for example, by represents two days missing, etc. 4 also on other dates. If Received too late to be included in means and summaries of the character from observed readings of the dry bulb; means are considered readings. If the direct addresses of these cardiors are summaries; of Gaston Shoals, Blacksburg; of Winthron College, Rock Hill; of Ferguson, Entawylle; processes a flead, Greenville; of Beaufort (near), Burton. § Observations taken from dry bulb thermometer at 7 a. m., 8 p. m. and 10 p. m. The recipitation is less than 0.01 inch of rain or melled show.

### Daily Precipitation for March, 1930.

Stations.	Draimge-															Day	of m	onti	١.											_	_		
	busins.	1	2	8	4	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	80	81	otai.
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ment	Brond	T						. 71 . 50 . 71 . 92	.75			. 12 . . 13 . . 11 . . 14 . . 16 .			т.			18	21 18 05 35	. 28 . . 25 . . 12 . . 51 .			.07	. 15	.01	.04 .	12 .		T	.09	::::	:::	3.06 2.96 3.28 2.32 3.51 2.55
naw rum ms Mountain erry	Lynches Broad Saluda Saluda Saluda	05	. 10				T 1 T. 1	17	. 04 . 18 . 10			. 10	04					26 13	35 . 32 . 28 .	52 . 55 . 27 . 50			.12 . .22 . .19 . .20 . .22 .		24 40 53	07 18 17	17 .			05			2, 51 2, 52 2, 60 3, 12 3, 40 2, 95 3, 24
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except as otherwise indicated, observations are generally made late in the afternoon, hear smost, and precipitation recorded is for the 24 hours ending at the time of exercism. Ill Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the nurrieried, midnight to midnight. \* Precipitation included in the next following measurement. Is caracter dates of fulls not recorded. T. Trace, or less than 0.01 inch. COMPARATIVE DATA FOR MARCH.

Tens.   Fig.	,						OMPA	KATI	VE DE	TA FOR M	ARCH	[.								
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Western Portion.	56 47 56 42 51 45 59 41 54	54 37 52 30  46 87 44 44 51	93	50 50 50 50 50 50 50 50 50 50 50 50 50 5	7 2 52 6	6 6	1 45 8 55 8 43 2 55 1 42 2 58	63	9 45 3 66 4 3# 6 70 7 87	59 41 31 61 81 61 81 61 61	38 9 60 3 35	40 7: 8: 7 8: 7 8: 7	9 47	59 42 60 60 45 60 41 66 62	74 49 72 87  71 38 69 88 69 29	72 45 64 52  60 39 71 41 65 43	72 58 68 56  68 52 76 51 68 54	58 68	62 38  65 33 66 34	72 6 40 4 74 5 33 4 70 6 33 1	1 4 2 5 0 3 	0 62 1 43 9 58 66 40 10 43 10	4 4 4 5 5 5 3 4 4 5 6 6 6 6 8 4 4 8 5 5	4 31	3 3: 3 5: 1 8:	3 4	1 3°1 5 1 8 1 8 6 3 6 6 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 6 5 3 1 7 6 8	66 8 31	88. 5 61. 2 37. 8 61.
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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. Marketine for the first number of the first number of the preceding day, on which it almost always occurs.

WBO, Raleigh, 4-24 30-900

JIIN 2 1930

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. UNIVERSITY OF ILLINOIS CHARLES F. MARVIN, Chief.

### CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist

COLUMBIA, S. C., APRIL, 1930. L. XXXIII.

### GENERAL SUMMARY.

The average temperature was above and average precipitan considerably below normal, with abundant sunshine.

The growing season opened with wild vegetation rather ckward for the season, while spring plowing was well ad-need. There were but two short periods of fairly copious ins, and the month closed with all crops showing the effects insufficient precipitation. Cotton and corn planting pro-eded throughout the month, but germination was rather irgular in large areas; cotton planting approached completion ward May 1. Tobacco transplanting began during the first ek, but this work was retarded later by dry weather. Oats d rye headed practically in season, but wheat and oats began ading on short straw toward the end of the month. Asally good development.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 gular Weather Bureau stations in and surrounding the Secon proper, 30.49 inches at Columbia on the same date; the the month, west pressure was 29.42 inches at Charlotte, N. C., on the h, and in the Section proper, 29.53 inches at Greenville on ie same date.

arm periods were from the 2d to 7th, 10th to 18th, and 28th 30th, inclusive, when the daily mean temperatures ranged om 5° to 17° above normal. The lowest temperature was 28° Cherokee (near) on the 1st. Freezing temperatures were reorded at several stations up-State on the 1st, 9th, 24th, and 5th. The cool periods were on the 1st, on the 8th and 9th, and from the 23d to the 27th, inclusive, when the daily mean emperatures ranged from 5° to 12° below normal.

### HUMIDITY.

The mean relative lumnidity, determined from reports of 9 egular Weather Bureau stations in and surrounding the Secion, was as follows: 8 a.m., 73%: noon, 48%: 8 p. m., 56%. he highest percentages occurred along the coast, and the lowest, n the up-country.

The average for the Section, 52 stations reporting, was .16 inches, or 0.91 inch below normal. Precipitation ocurred in but two short periods, when showers were more or

less copious; distribution was poor, with 4 to over 7 inches in a small group of the lower counties, and elsewhere the amounts a small group of the lower counties, and eisewhere the amounts ranged downward from 3 inches to less than 1 inch. The greatest local monthly amount was 7.20 inches at Garnett; least local monthly amount, 0.55 inch at Edgefield. The greatest amount during any 24 hours was 2.57 inches at Beaufort (near) on the 3d. The average number of rainy days was 29% below normal. Light to moderate hail occurred at Santuck and Woodbuff on the 3d and at Little Mountain on the tuck and Woodruff on the 3d and at Little Mountain on the 20th, and no violent storms were reported. There was no snowfall.

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was 7.2 miles. The highest velocity for any 5-minute period was 48. miles per hour from the west at Greenville on the 7th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 autoragus of fine quality was harvested, and native strawberries matic records, was 296.9 hours, or 74% of the possible amount. The average number of clear days was 18; partly cloudy, 6, and cloudy, 6, as against normals of 15, 8, and 7 days, respectively.

### RIVER CONDITIONS.

There were no floods during the month on account of genon, was 30.06 inches. The highest pressure was 30.50 inches at erally light rainfall. However, the more sluggish streams of sheville and Wilmington, N. C., on the 10th, and in the Sectite coastal plain maintained fair volumes of water throughout

### MISCELLANEOUS PHENOMENA (dates).

Frost, Last Killing.—Caesar's Head, 24; Cherokee (near), 25; Clemson College, 9; Landrum, 1; Laurens, 1; Santuck. 25; Spartanburg, 9; Walhalla, 9.

The monthly mean for the Section, determined from restricts of 41 stations, was 63.4°, or 1.1° above the normal. The ighest temperature was 96° at Society Hill on the 12th. The arm periods were from the 2d to 7th, 10th to 18th, and 28th

Fog, dense. - Due West, 3; Mars Bluff, 12, 17, 18, 28.

### ERRATA.

March, 1930.—Lowest pressure, text, page 9, add Asheville, with 29,22 inches on the 7th. Clemson College, mean temperature, page 10, should be 47.2.

MISC	CELLA	NEC	US	DA'	ra f	OR A	APRIL	, 193	0.			
	sea	Temp	eratu es Fa	re,	Preci tion	ň,	Win 3-eup A		re	lean lativ nidit	e y.	age of pos-
Stations.	Barometer.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage of sible sunsni
Asheville, N. C	30. 06 30. 05 30. 06 30. 65 30. 06 30. 09 30. 06 30. 06	56. 2 67. 0 65. 6 62. 2 65. 5 62. 6 62. 9 67. 1 63. 5	82 90 86 92 93 89 89 87 92	29 41 48 41 42 41 42 50 41	1. 72 1. 91 2. 60 0. 86 1. 64 1. 30 2. 58 4. 21 1. 62	0.87 1.13 1.15 0.38 0.72 0.62 1.60 2.12 0.82	7. 4 5. 0 8. 9 4. 7 6. 1 8. 0 7. 9 10. 3 6. 6	nw. nw. sw. sw. sw. sw. ne. e. sw.	73 72 74 66 78 72 65 86 78	45 41 60 44 39 44 48 52 62 48	50 49 71 46 48 63 78	63 83 78 72 72 75 71 69 83
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Climatological Data for April, 1930.

					Clim	atolog	gical	Data	for	Apr	il, 19	30.			_					
			record.	Т	empera	ture, in	degr	ees Fa	hr.		Precipi	tation.	in incl	hes.	Num	ber	of da	ys.	direction md.	9
Stations.	Counties.	on, feel	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	(treatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeited.	With precipit on (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
Eastern Portion.																				W. D. I. Relea
Beaufort (near)‡‡ Black ville Charleston	Beaufort Barnwell Charleston Chesterfield	21 296 48 144	49 46 59 48	66. 8 66. 0 65. 6 62. 7	+1.5 +1.6 +1.1 +1.0	87 92 86 92	†20 12 12 †12 †12	44 39 48 35	8 9 1 † 1	36 36 26 54	5. 15 2. 93 2. 60 2. 13	+2.79 -0.31 +0.07 -0.92	2.57 1.49 1.15 0.81	0 0 0 0	6	18 20 14	9 9 7	3 1 9 	s. sw	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conwny Darlington Effingham Ferguson <sup>22</sup>	Horry Darlington Florence Orangeburg	25 175 106 63	40 35 39 44	65. 1 *64. 0 63. 7	+2.3 +1.8 +1.3	94 *93 	12 12 	36 33 36	25 1 9	48 *43 	1.98	-1.60 $-1.31$ $-1.86$ $-0.02$	0.46 1.15 0.61 0.90	0 0 0 0	7 6 4 5	23 13 	8 	9	se.	Paul Quattlebaum. p. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Florence	136 136 82 18 54	15 12 37	64.5 *65.8 62.0 65.2	+1.7 -0.4 -1.7 +1.8	92  *90 85 91	†12 12 12 12	39 *36 36 37	† 1 † 1 † 1 † 9	45 *47 43 44	3. 03 2.82 7. 20 1. 24 1. 73	+0.10 -0.11 +4.58 -2.06 -1.07	1. 42 0. 95 2. 15 0. 58 0. 72	0 0 0 0	8 5 5 6 6	23 19 25 24 23	2 7 1 2 1	5 4 4 4 6	sw. sw. e.	II. K. Gilbert. Pee Dee Exporiment Sta. Maner B. Robert. Brooklyn Cooperage Co, Mrs. Ellen Scott.
Marion Mars Bluff Orangeburg Pinopolis	Marion Florence Orangeburg Berkeley	68 92 264 54	5 7 14 83	64.4	+1.9	91	11	35 40	1 1	50	1.76 1.73 3.08	+1.27	0.92 0.59 1.29	0 0 0	6	19	10	8	S. W.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel. Floyd C. Martin.
Rimini Society Hill Summerville Sumfer Wedgefield Yemassee	Darlington	97 192 75 169 249	2 39 3 32 9 6 9 40	62. 8 65. 4 64. 8 64. 4	+1.1 +1.6	96 91 92 90	12 12 12 12 13	34 38 38 41	1 25 † 1 † 1	47 39 47 42 43	1. 67 4. 00 2. 04 3. 05 5. 47	-1.79 $+0.55$ $-0.04$ $+2.58$	0.58 1.36 0.98 1.00 1.87	0	6 6 5	23 19 14	10 3	5 6 5	w.	E. D. Fields, Jr. Clemson Coast Exp. Sta. Sumter Water Dept. W. Hampton Ramsey W. G. Hutson.
Vemassee	flampton	1		65.8	1	. 96	23 12	40 33	1	54	2.86	0.18	1	C			1	5	1	
Western Portion.	1					1											-		1.	
Atken Anderson Blairs Cesurs Head ‡‡ Calhoun Falls	Fairfield	76 29: 311: 50:	1 37 3 25 8 6 8 31	63. 2 454. 4 63. 5	+1.6	°80 92	†12 12 11 12 12	41 37 432 33 31	† 8 9	44 430 43	1.55 2.53 1.97 2.68 1.83 2.42	-1. 65 -0. 96 -0. 87 -1. 74 -0. 69	0.95 0.95 1.37		0 5	12			, w	Frank B. McCoy. I. II. Russell. Sarah L. Owens. Cresar's Head—P. Mtn. Co I. M. Purker. Henry A. Brown.
Camden Cutawba Chappells Cherokee (near) Chester Cleuson College	. Vork Newberry Spartanburg	. 56 40 . 75 . 48	2 24 12 25 18 2 18 8	60.	2	91	12	28		*53	0.76 0.96 1.53	-2.47 -1.98	0.39				i'	6	3 sw 3 se. 4 sw	J. C. Cornwell. Prof. F. H. H. Calhonu.
Columbia	Richiand	35	51 44	65.	5 +2.2		12	42	. 9	37	1.64	-1.2	0.7		0	6				Broad River Power Co.
Crescent.  Due West  Edgefield †† Gaston Shoais †† Greenville.	Edgefield	71 68	11 16 16 80 27 39 46	62.	9 +4.	•- ::::::	12		:	9 35 1 33 1 36	1.30 0.55 1.02 2.58 1.23	-0.93 -3.1 -2.6 -1.1 -1.8	0.6 1 0.2 1 0.8 4 1.6	2 9 0 0	0	2 5 7 1			9 11e 1 W	Agent C. and W. C. Ry. Southern Public Utilities. U. S. Weather Bureau. M. M. Calhoun.
Greenwood Heath Springs Hogback Mountain . Kershaw Landrum	Lancaster	56 80; 50	68 28 25 3 00 14 63 15	8 61. 4 64. 5 62.	6 +0.9 2 +1.9 7 +2.	9 90 5 95 7 92	12	36		5 47 1 53 1 46 1 41	1.40 1.62 2.30 1.22	-1.8 -2.0 -2.6 -2.4	0 0 6	6		6 1 2	5	· i	0 W 5 e. 2 w 2 s.	Blue Ridge Forests Co. John W. Hamel.
Little Monntain New berry Pelver Saluda	Newberry Newberry Anderson	. 7 5 8 5	11 31 02 26 50 20 36 21	7 63. 6 63. 8	0 +1.	2 93 2 92	15	2 35	t	9 42	1.65 1.19 2.06	-1.9	9 0.3	6	0 0 0	6 1	8		4 w w	John H. Baxter. Joshua Y. Jones. W. S. Crout.
Spartanburg	Spartanburg Edgefield Oconee	8 6 10	12 3 375 5 20 3 61 3 645 3 590 3	3 58. 7 66. 60 61. 66 °64.	.9 -1. .4 +3. .2 +2. .3 +4.	4 90 5 91 4 91	111111111111111111111111111111111111111	2 30 2 40 2 30 2 43	5	9 43 1 41 1 48 9 •39 9 44	1.54 1.18 2.64 1.59	-1.7 -2.8 -2.1 -1.	30 0.4 19 1. 35 0.	58 18 64	0 0 0 0	3 7 5	10 16	0 15 10 7 12	6 5 Si 4 Si 7 Si 3 S.	
	d extremes	1		62			1			1 58	1.65		VI.		0		17	7		W.
Section means an	d extremes			63	. 4 +1.	. 1 96	1	2 2	8	1 5-	2.16	-0.	91 2.	57	0		18	6	1	w. l complete reports are used in

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in departure departures. The record to the date of the included in means and summaries. Temperature data are from observed readings of the dry hulb: neuron are not follows: Of Gaston Shoods, Blacksburg; of Wightmort College, Rock lift; of Ferguson, Entawyfle; puted from observed readings. If Post-office addresses of these stations are as follows: Of Gaston Shoods, Blacksburg; of Wightmort College, Rock lift; of Ferguson, Entawyfle; puted from observed readings. If Post-office addresses of these stations are as follows: Of Gaston Shoods, Blacksburg; of Wightmort College, Rock lift; of Ferguson, Entawyfle; puted from observed readings. If Post-office addresses of these stations are as follows: Of Gaston Shoods, Blacksburg; of Wightmort College, Rock lift; of Ferguson, Entawyfle; puted from observed readings. If Post-office addresses of these stations are as follows: Of Gaston Shoods, Blacksburg; of Wightmort College, Rock lift; of Ferguson, Entawyfle; puted from observed readings of the dry lift; of Ferguson, Entawyfle; puted from observed readings of the dry lift; of Ferguson, Entawyfle; puted from observed readings of the dry lift; of Ferguson, Entawyfle; puted from observed readings of the dry lift; of Ferguson, Entawyfle; puted from observed readings of the dry lift; of Ferguson, Entawyfle; puted from observed readings of the dry lift; of Ferguson, Entawyfle; puted from observed readings of the dry lift; of Ferguson, Entawyfle; puted from observed readings of the dry lift; of Ferguson, Entawyfle; of Ferguson, Entawyfle; of Ferguson, Entawyfle; of Ferguson, Entawyfle; of Ferguson, Entawyfle; of Ferguson, Entawyfle; of Ferguson, Entawyfle; of Ferguson, Entawyfle; of Ferguson, Entawy

Daily Precipitation for April, 1930.

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Stations.	busins.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	80	31	Tota!
Kastera Partion, afort(near) skylle	Coast			1.05	.28	1.14	.49												T	40	T			T	T.								5.15 2.93 2.60 2.13 1.52
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rgetowit gstree      ion s Binif, igelinrg ipolis	Coast Black Pee Dee. do Edisto Cooper			.87 .10	. 12	. 53	. 08 . 72 T. . 48 1. 10	T										.05	.10	.58	. 65		.23		.04								1.24 1.73 1.76 1.73 3.08
ini       ety 1111      meryithe      ter geliela ussee     Vestera Portion.	Suntee		T.	. 19	.02	. 35	1.00										::::	····	.18	65	. 28 . 49 . 03	::::		::::									3.29 1.67 4.00 2.04 3.05 5.47
n erson rs     orr's llead onn Falls      den	Edisto		. 41	. 25	. 19		. 24 1. 37												.64 T.	. 34	.95	.04		. 02					.35				1.55 2.53 1.97 2.68 1.83 2.42
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### COMPARATIVE DATA FOR APRIL.

	Те	mperatn	re.	Precip	itation.	Averag	e nnm dnys.	ber of	iling direc- on.		Te	mperatu	re.	Precip	itution.	Averag	e num days.	ber of	ling direc-
Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly eloudy.	Cloudy.	Prevai wind	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind o
	62. 3 64. 6 62. 4 62. 8 63. 2 62. 6 62. 6 61. 4 66. 9 62. 2 58. 0 60. 0 60. 4 60. 6 60. 6	945 953 952 88 4 95 95 95 95 95 95 95 95 95 95 95 95 95	28 31 30 31 32 26 29 31 30 28 30 28 30 27 24 26 27 24 26 27 28 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 31 31 31 31 31 31 31 31 31 31 31 31 31	2. 09 1. 33 2. 01 2. 02 1. 66 1. 13 1. 30 2. 01 5. 55 1. 31 3. 24 5. 05 3. 02 5. 41 5. 03 5. 18 2. 18	5 4 6 6 6 6 10 1 4 9 8 7 7 7 7 7 7 8 8 6 9 9 4 10 0 9 7	15 15 12 14 16 16 12 12 15 15 15 14 14 15 20 10 11	10 10 9 11 16 6 7 7 9 9 6 6 9 9 9 8 8 8 6 13 10	559587999967874479	SW.  NO.  SW.  SW.  SW.  SW.  SW.  SW.  SW.  S	1910 1911 1912 1913 1914 1915 1916 1916 1917 1920 1921 1922 1923 1924 1925 1926 1927 1928 1928 1929 1928	63. 4 61. 6 64. 3 61. 2 63. 7 63. 1 61. 6 64. 9 61. 4 61. 4 61. 4 61. 5 61. 5 61. 5 61. 5 61. 5 63. 3 63. 3 63. 3 63. 3 63. 4	95 91 91 90 98 98 98 92 92 92 94 91 95 94 95 95 94 95 95 96	32 30 32 30 30 25 24 28 32 24 26 27 33 1× 24 25 26 29 28 32 33	1. 71 2. 95 4. 24 2. 00 2. 86 1. 47 1. 79 3. 34 5. 82 2. 10 5. 13 2. 43 5. 91 2. 43 5. 92 2. 10 4. 30 2. 43 6. 40 4. 30 2. 10	5 8 8 9 9 6 7 7 4 4 5 7 7 11 1 5 5 10 6 6 8 8 9 10 6 6 6 6 6 9 9 8 5 5 7 7	15 12 14 20 14 20 18 20 11 20 13 16 14 15 15 18 18	10 9 5 4 10 16 8 8 6 9 9 5 6 6 8 7 7 7 5 6 6 8 6 6 8 6 6 6 6 6 6 8 7 6 6 6 8 6 6 8 6 6 6 6	5 9 111 6 6 4 4 4 4 110 5 111 6 6 8 8 10 6 6 6 8 8 10 6 6 6 6	SW. He. SW. SW. W. W. SW. SW. SW. S. SW. S. SW. S. SW. SW
*********	00.9	90	- 00	2.90		14	9	- 1	011.	Period	02. 3	99	18	3.07	- /	15	8		sw.

Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 5-23-80-900

# CLIMATOLOGICAL DATA.

### SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

or. XXXIII

COLUMBIA, S. C., MAY, 1930.

### GENERAL SUMMARY.

The month was somewhat warmer than usual, and precipation averaged considerably below normal.

ons were materially improved in the central and northwestern ctions by frequent and fairly copious showers between the 7th id 20th, but in most of the low country the rainfall was genally insufficient. Cotton came to generally good stands about e more northern counties by the close of the month. Winter ts and wheat headed on short straw, incident to previous on the 9th and at Cherokee (near) on the 14th. mi-drought, and the cereal harvests began about the middle the month; some stubble lands were then turned to cotton, he growing condition of corn. truck, and lesser crops reflected e distribution of rainfall. The fields were generally clear of ass. Tobacco transplanting was retarded by rather poor soil miditions, but considerable sweet potato transplanting proeded in the more favorable sections. Native strawberries ere on market throughout the month, dewberries appearing out the 20th, and early peaches began coming in during the st week. The month closed with commercial white potatoes d cucumbers moving rapidly.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 mlar Weather Bureau stations in and surrounding the Secm, was 30.07 inches. The highest pressure was 30.34 inches at theville, N. C., on the 25th, and in the Section proper, 30.32 ches at Columbia and Due West on the 12th; the lowest essure was 29.68 inches at Asheville and Charlotte, N. C., on e 14th, and at Savannah. Ga., on the 30th, and in the Secon proper, 29.71 inches at Columbia on the 30th, and at een ville on the 14th.

### TEMPERATURE.

rts of 41 stations, was 72 0°, or 1.1° above the normal. The at Columbia was considerably below normal, thest temperature was 96° at Greenwood on the 5th. The MISCELLANEOUS DATA FOR MAY rm periods were from the 1st to 10th and from the 16th to 20th, inclusive, when the daily mean temperatures ranged m 5° to 12° above normal. The lowest temperature was 38° Walhalla on the 31st. The cool periods were from the 24th 26th and at the close of the month, when the daily mean apperatures ranged from 5° to 13° below normal.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 nlar Weather Bureau stations in and surrounding the Secn, was as follows: 8 a.m., 76%: noon, 52%: 8 p. m., 63%. e highest percentages occurred along the coast, and the lowest, the interior.

### PRECIPITATION.

The average for the Section, 51 stations reporting, was 2.44 inches, or 1.17 inches below the normal, 5.01 inches below the average of the wet May of 1888 and 1.85 inches above the average of the dry May of 1911. Rainfall occurred in three poorly defined periods and was badly distributed as to area and amounts. There was a long series of fairly copious showers, practically daily, in the western portion from the 7th to the 20th, while in the eastern counties the rains were relatively light and more or less scattered. Aside from small areas of Relatively dry weather, high temperatures, and abundant the Piedmont sections, where the rainfall ranged from 4 to over mshine during the early part of the month retarded germina- 6 inches, the amounts were generally below normal and ranged on of cotton, corn, and other spring crops. However, condi-downward to less than 1 inch along the middle coast and in a considerable section of the northern coastal plain. The greatest local monthly amount was 6.56 inches at Walhalla; least local monthly amount, 0.50 inch at Marion. The greatest amount during any 24 hours was 2.82 inches at Walhalla on the 8th. e 20th, and chopping approached completion northward over The number of rainy days was 15% below normal. Light to moderate hail occurred at Walhalla on the 3d, at Spartanburg

> Killed by Lightning.-Noon, 23d, John Rice, colored, in Rocky Mount Church Section, near the Saluda River, west of Greenville, while seeking shelter from the storm.

Damage by Lightning .- 8th, lightning struck the Blue Ridge School, near Walhalla, and the building was burned; damage, about \$3,500.

Mr. Rufus Mack was injured when lightning struck his home in Gaffney on the 12th. The damage to the house was slight.

The prevailing wind was from the southwest. The average honrly velocity, determined from 9 anemometer records, was 6.4 miles. The highest velocity for any 5-minute period was 32 miles per hour from the southeast at Asheville, N. C., on the 19th, and in the Section proper, 30 miles per hour from the southwest at Columbia on the 13th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 300.7 hours, or 70% of the possible amount. The average number of clear days was 14; partly cloudy, 10, and cloudy, 7, as against normals of 15, 9, and 7 days, respectively.

### RIVER CONDITIONS.

The rivers maintained fair stages generally, notwithstand-The monthly mean for the Section, determined from reling the relatively light rainfall, except that the Congaree River

### MISCELLANEOUS DATA FOR MAY, 1930.

	sea.		perat ees F		tio	ipita- ni. hes.	Wir 3-eup A		re	Mean elati midi	ve	age of pos-
Stutions.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevalling direction.	8 a. m.	Noon.	8 p. m.	Percentage of sible sunsni
Asheville, N.C Angusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Gerenville, S. C Savannah, Ga Wilmington, N. C. Means and ex. }	30. 07 30. 06 30. 08 30. 66 30. 07 30. 10 30. 06 30. 07 30. 07	63. 8 75. 2 75. 0 71. 9 73. 8 71. 3 70. 6 75. 4 72. 4	84 92 92 90 92 91 88 92 89	42 50 54 48 50 49 52 54 50	2.56 1.44 0.76 3.08 2.95 2.31 2.27 1.94 1.51	0.74 0.60 0.31 1.56 1.07 0.61 0.83 1.26 0.96	5. 6 4. 8 8. 4 3. 3 5. 6 7. 1 7. 1 9.0 6. 4	nw, s. sw. s. sw. w. s. sw.	84 78 76 72 74 76 73 76 79	53 42 65 49 46 52 53 54 58	63 52 76 56 56 56 70	50 79 77 68 63 61 63 72 74
tremes	30.07	72.2	92	42	2 09	1.56	6.4	8.	76	52	63	70

### Climatological Data for May, 1930.

					Clim	atoro	gica	Dai	ta 10	I DIE	iy, 19								- 1	
			record,	Т	emperat	ure, in	degr	ees Fa	hr.		Precip	itation,	in ine	hes.	Num	ber	of da	ıys.	etior	
Stations.	Counties.	on, fee	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.01 in. or more)	Clear.	Partly cloudy;	Cloudy.	Prevailing direction or wind.	Observers.
Eastern Portion.					1															
Beaufort (near)‡‡ Blackville Charleston Chetaw	BeaufortBarnwellCharlestonChesterfield	21 296 48 144	49 46 59 48	75.0 74.8 75.0 71.9	+1.6 +1.8 +2.3 +1.4	95 94 92 91	20 † 3 20 3	52 48 54 48	31 31 31 31	34 37 21 38	1. 16 1. 27 0. 76 3. 24	$     \begin{array}{r}       -2.12 \\       -2.41 \\       -2.24 \\       -0.37     \end{array} $	$\begin{array}{c} 0.61 \\ 0.79 \\ 0.31 \\ 1.28 \end{array}$	0 0 0 0	6 5 6 7	12 12 11	16 19 7	3 0 13	s. sw	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway Darlington Effingham Ferguson <sup>‡‡</sup>	Horry Darlington Florence Orungeburg	25 175 106 63	40 35 39 44	73. 8 72. 8 	+3.2 +2.1 +2.0	94 92 	18 3 20	46 45	31 31	39 38  43	0.72 1.54 1.96 1.24	$^{+2.98}_{-2.12}$ $^{-1.69}_{-2.83}$	0. 40 0. 84 1. 27 0. 62	0 0 0 0	4 8 4 5	25 10 	7	6 14	sw.	Paul Quattlebanm. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1 Florence 2 Garnett Georgetown	Florencedo	136 136 82 18 54	48 15 12 37 48	74. 4 76. 6 70. 4 74. 0	+2.4 +4.7 -1.5 +2.4	94 94 89 94	†19 †3 28 18	45 50 46 45	31 31 31 31	37  37 35 40	1.72 1.42 1.34 1.65 0.98	$\begin{array}{c} -2.30 \\ -2.60 \\ -3.38 \\ -2.04 \\ -2.39 \end{array}$	1. 12 1. 33 0. 68 0. 74 0. 32	0 0 0 0	3 5	21 21 20 14 16	7 9 10 13 8	3 1 1 4 7	SW. SW.	H. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Brooklyn Cooperage Co. Mrs. Ellen Scott.
Kingstree	Marion	68 92 264 54	5 7 14 83	74.0 74.0 73.8	+3.7	*94 91 91	18 † 3 18	*48 57	31 31 31	*87	0.50 0.78 1.54 2.80 0.90	-1.95 -0.89 -3.49	0.43 0.58 0.52 0.90 0.56	0 0 0 0	5 8	15	12		s. sw.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel. Floyd C. Martin.
Society Hill	Darlington Dorchester Sumter	97 192 75 169 249	39 32 6 40	72.0 74.4 78.4 72.1	+1.5 +2.8 +1.0	94 93 92 92	8 †18 † 3	44 48 43 47	31 31 31 31	40 41 42 33 38	2.87 1.31 1.50 2.75	-0.71 -2.33 -0.58 -0.20	1.25 0.54 0.53 1.70 1.23	0000	7 5 5 4	16 16 20	1 10 12 0 2	11	w. sw. s. w	E. D. Fields, Jr. Clemson Coast Exp. Sta. Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
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Western Partion.	1																1		1	
Aiken C	Fuirfield Greenville	- 527 764 293 3118 508 222	37 25 6 31	74. 3 70. 4 61.2 72. 2 72. 3	+2.6 +0.6 	90 89  80 94 94	† 3 † 4 5 3	49 49 40 46 47	31 31 31 31 31	32 34 42	0.46 4.45 2.64 3.68 3.41 2.09	-3. 12 +1. 14 -0. 51 -0. 57 -1. 12	0.82 0.83 1.87			2 15 7 9 5 8 15	13	16	:::::	Frank B. McCoy. 11. II. Russell. Sarah L. Owens. Casar's Head—P. Mtn. Cc 1., M. Parker. Henry A. Brown.
Caniden	York	562	24	12.0							2.94 2.62	-0.84 -0.42	0.75		0 10	0				James C. Farls. William Spearman.
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Crescent Due West Edgelieht ††	Spartanburg Abbeville Edgefield	A	1 16 16 0 27			91	3	49		::::::	3.29 2.31 0.87 4.84 2.27	-1.54 -2.33 +1.23 -1.76	0.8	í 1 3	0 1	3 8		9 14	: :::::	Broad River Power Co. U. S. W. B. Aerological S. Agent C. and W. C. Ry. Southern Public Utilitie U. S. Wenther Bureau.
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of dusy missing, for example, b represents two days missing, etc. Also on other dutes. If Received too late to be inclined in means and summaries. "Temperature data are from closerved readings of the dry bulb; means are computed from observed readings. If Post-office addresses of these stations are as follows: of Caston Shoals, Blackshurg, of Winthrop College, Rock Hill; of Fergification, Entasvellie of Creas's Bland, Green'ille of Beaufort (near), Burton. § Observations taken from dry bulb thermometer at 7 a.m., 3 p.m. and 10 p.m.

The Precipitation is less than 0.01 inch of rain or melted snow.

Daily Precipitation for May, 1930.

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Except no stherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. ||| Precipitation unseared in the morning; amount them recorded is for the preceding 24 hours. \*\*\* Regular Worther Bureau station; precipitation is for the 44-hour period, midnight to midgight. \* Precipitation included in the next following measurement. Teleparate dates of falls not recorded. T. Trace, or less than 0.01 incl.)

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Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

§§ Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 6-26-30-900

# CLIMATOLOGICAL

### SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol., XXXIII. COLUMBIA, S. C., JUNE, 1930.

### GENERAL SUMMARY.

Temperatures averaged considerably below normal, and precipitation, somewhat below.

Precipitation and thermal conditions were generally faworable for all crops, except in a few small areas, where the rainfall was deficient. Cotton made good progress and was blooming and fruiting freely as the month closed; the first normal. Old corn was in generally good growing condition, out later plantings and forage were needing rain at the end of week, followed by threshing. Tobacco made good growth, and euring became active as the month closed. The white potato narvest advanced progressively from the coast to the northvestern counties. Sweet potato transplanting proceeded, but his work was retarded in considerable areas by dry soil. Vegeables, melons, berries and tree fruits came on market in season.

### TEMPERATURE.

The monthly mean for the Section, determined from reorts of 42 stations, was 75.1°, or 2.3° below normal. The squalls damaged farm property and crops in the Bethany Sec-ighest temperature was 104° at Calhoun Falls, Kershaw, ittle Monntain, and Society Hill on the 24th. The warm peinclude a sometain. The warm period was from the 22d to the 27th, inclusive, when the daily nean temperatures ranged from 5° to 10° above normal. The west temperature was 42° at Cheroke (near), Marion, Sanak, Society Hill, and Walhalla on the 1st. The cool periods ere from the 1st to 4th and 8th to 19th, inclusive, when the tily mean temperatures ranged from somewhat below to  $10^\circ$ elow normal.

The mean relative humidity, determined from reports of 9 gnlar Weather Burean stations in and surrounding the Secon, was as follows: 8 a.m., 78%: noon, 56%; 8 p. m., 66%. ne highest percentages occurred along the coast, and the lowest, the interior.

### PRECIPITATION.

40 inches, or 0.44 inch below normal. Intermittent showers curred in three rather irregular periods, with poor distribuon as to area and amounts. The measurements ranged from to over 7 inches in the major portion of the coastal plain and a small area of the northwestern counties; elsewhere, the nounts ranged downward from 4 inches to less than 3 inches. e greatest local monthly amount was 7.67 inches at Pinops; least local monthly amount, 2.27 inches at Society Hill. e greatest amount during any 24 hours was 2.50 inches at emson College on the 21st. The average number of rainy was normal. Light hail occurred at Georgetown on the h and at Saluda on the 22d.

Killed by Lightning .- Mr. O. N. Mitchell, at Saluda Dam, ke Murray, near Colnmbia. late afternoon of June 21. On ne 25. 7:30 a.m., Hettie White, colored, 8 miles east of mter, while standing in the door of her home; during the late afternoon of the same date, Albert Cooms, colored farmer, near the swamp west of Sumter, while hastening to shelter; the mule he was riding, valued at about \$100, was killed.

Tornadoes .- During the afternoon of June 6, a small tornado, in a short path about 35 yards wide, damaged a dairy No. 6 and livestock near Florence to the extent of about \$6,400; 7 dairy cows were killed, and several injured. June 24, late afternoon, a small tornado, in a path about 250 yards wide, dipped into the Masters Section, south of Anderson, damaging farm buildings and livestock to the extent of about \$9,500.

Damage by Lightning, Hailstorms, and Wind Squalls.—June 21, heavy hail damage crops of 3,000 to 5,000 acres of land, a few miles north of Newberry, about \$60,000; some of the hailbloom was picked at Syracuse on the 9th, 2 days earlier than and Mount Moriah Sections, near Greenwood, lightning and the resulting fire destroyed about \$12,000 worth of farm buildhe month. The small grain barvests ended during the first chandise store of Ramsey & Geddings, Wedgefield; about 10 ings and livestock. June 26, lightning fired the general merp.m., entailing a general loss of about \$12,000; Mr. Ramsey is cooperative observer at Wedgefield. June 26, 10 p. m., St. Peter's Church, colored, on Broad River Road, 16 miles from Columbia, demolished by a wind squall, with a loss of about \$3,000. On June 24, about 7 p.m., south of Due West, a wind squall, with some hail, damaged farm property and crops about \$500. A wind squall damaged a barn near Trenton about \$400 on June 27. On the same date, hail and wind

### WIND.

The prevailing wind was from the east. The average The hourly velocity, determined from 9 anemometer records, was 6.4 miles. The highest velocity for any 5-minute period was 35 miles per hour from the northwest at Savannah, Ga., on the 25th, and in the Section proper, 31 miles per hour from the east at Charleston on the 14th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 280.3 hours, or 65% of the possible amount. The average number of clear days was 14; partly cloudy, 7, and cloudy, 9, as against normals of 13, 10, and 7 days, respectively.

### RIVER CONDITIONS.

There were no important rises in any of the streams The average for the Section, 53 stations reporting, was of the Section, and the Congaree and Saluda Rivers were considerably below normal stages.

### MISCELLANEOUS DATA FOR JUNE, 1930.

Stations.	r, sea	Tem	perat ees F	ure, ahr.	tic	dpita- on, thes.	Win 3-enp		r	Mean elati midi	ve	tage of pos-
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 р. т.	Percentage c
Asheville, N. C Angusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga Wilmingtou, N. C Means and ex. } tremes	30, 02 30, 60 30, 02 30, 02 30, 01 30, 05 30, 00 30, 00 30, 00 30, 02	68. 0 78. 0 76. 8 75. 2 75. 9 75. 4 74. 9 77. 4 75. 2	93 102 95 102 100 102 99 97 93	41 50 61 52 50 58 53 60 54	2. 96 2. 49 6. 59 4. 92 3. 98 2. 59 5. 23 3. 42 3. 89	0.75 0.76 2.39 1.98 1.31 0.98 2.45 0.95 1.18	6. 1 4. 8 9. 2 3. 5 5. 5 6. 7 6. 3 9. 4 6. 0	se. s. s. s. e. ne. e. s.w.	81 77 80 72 79 77 73 81 81	49 51 78 49 53 51 52 62 63	58 59 80 56 59 57 77 80	62 73 61 65 59 66 70 55 71

		54			Clim	atolo	gical	Dat	a fo	r Jur	ie, 19	30.	1							
			record,	T	emperat	ure, in	degre	es Fa	hr.		Precip	itation,	in incl	ies.	Num	ber o	f da	ys.	direction	
Stations.	Counties.	on, feet	Length of rec years.	Mean.	Departure from the normal.	Highest.	Date.	Lowert.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	(0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
Eastern Portion.																				
Beaufort (near)‡‡ Blackville Charleston Cheraw	Beaufort Baruwell Charleston Chesterfield	21 296 48 144	49 46 59 48	77. 0 76. 2 76. 8 75. 9	-2.2 -3.2 -2.1 -1.5	98 97 95 103	23 24 20 24	54 53 61 49	1 2 1 1	29 37 23 40	5.74 5.15 6.59 2.89	+0.54 $-0.26$ $+2.00$ $-2.25$	2.00 1.78 2.39 0.91	0 0 0	12 8 15 8	13 14 7	6 10 5	11 6 18	e. s.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway	Horry Darlington Florence Orangeburg	25 175 106 63	40 35 39 44	75.8 75.4	-1.8 -1.7	97 98	24 24 	45 45 45	1 1 1	41 43 	5.78 3.69 4.14 5.07	+0.68 -1.75 -1.79 -0.53	1.43 1.45 1.74 1.76	0 0 0	12 8 11 9	16 15 	0 6 	14 9	sw.	Paul Quattlebaum. D. C. McCall. Wm. B. Gillesple, Henry C. Savage.
Florence 1	Florencedo	136 136 82 18 54	48 15 12 37 48	77. 4 *76. 0 73. 8 76. 0	-1.3 -3.4 -4.7 -2.2	101 *102 90 100	24 †20 24	50 47 46 45	1 1 1 1	41 *41 35 45	3.71 3.56 3.86 7.61 5.90	$ \begin{array}{r} -1.56 \\ -1.21 \\ -3.07 \\ +1.91 \\ +0.72 \end{array} $	1. 43 1. 27 1. 10 1. 51 1. 80	0 0 0 0	10 8 10 15 11	17 15 19 13 22	3 8 7 10 2	10 7 4 7 6	sw. e. se. s.	11. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Brooklyn Cooperage Co. Mrs. Ellen Scott.
Marion	Marion Florence Orangeburg Berkeley Smuter	68 92 264 54 97		76.2 76.4 76.8	-2.3 +0.6	98 95	24 †24 †23	42 47 55	1 1 1	48 39	3.44 5.31 5.80 7.67 4.66	+1.31 +1.98 +0.34	0. 51 1. 40 1. 71 2. 00 1. 21	0 0 0 0	12 11 12 13 7	11 11 12	12  7 12	9 12 6 	e. w. e.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station. Miss E. P. Ravenel. Floyd C. Martin.
Society Hill	Darlington	192 75 169 249 24	32 6 40	*75. 4 75. 6 75. 8 76. 4	-1.9 -2.0 2.4	104 97 93 93	24 †24 20 †28	*42 45 43 48	1 1 1 1	°41 39 44	2.27 4.43 6.40 6.43	-3.05 -1.27 +0.87	0.74 1.32 2.00	0 0 0 	14	28 9 11 13	0 3 18 6	7 18 6 11	e. e. s.	E. D. Fields, Jr. Clemson Coast Exp. Sta. Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extremes			76.1	-1.6	104	24	42	1	48	5.00	-0.46	2.39	0	11	14	6	10	е.	
Western Portion.																			ne.	
Alken Anderson Blairs Cæsars Head ‡‡ Calhonn Fulls Camden	Fairfield	3118 508	37 3 25 6 6 3 31	76.4 74.8 62.6 76.0 75.4	-1.4 -1.2 	99 100 82 104 96	24 24 †23 24 24	55 52 45 47 48	† 1  † 1 1	29 36 33 37 37	2.58 3.94 8.81 4.89 2.31 4.21	-2. 10 +0. 34 -0. 16 -1. 60 -0. 31	1. 12 2. 16 1. 15 0. 80	1	9 7 10 6	18  11 14	5 0  8 5			Frank B. McCoy. H. H. Russell. Sarah L. Owens. Cæsar's Head-P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba	. York Newberry Spartanburg Chester Oconee	56: 40: 75: 48' 85:	2 24 2 25 8 2 7 8 0 38	72.4 f78.6 b74.8	-0.8 2.2	99 f96 100 100	24 †21 24 24	42 †49 543 50	 1 4 1	140	3.79 2.69 3.26 6.00 5.68 3.98	-0.59 -0.86 +0.85 -0.19	1.12 1.14 2.05 2.50		10 4	25 17 12	10 10 13	8	110.	James C. Farls. William Spearman. Spartanburg Water Works. J. C. Cornwell. Prof. F. H. H. Calhonu. U. S. Weather Bureau.
Crescent. Due West Edgefleid †† Gaston Shoals 11. Green ville. Green wood.	Spartanburg Albeville Edgefield	. 63 71 . 68 103	0 4 1 16 1 16 0 27 9 46	75.4	-1.6 +0.8	102 99 102	24 24 25	53 58 53	10	28	5, 64 2, 59 3, 29 2, 75 5, 23 3, 64	+0.6	1.39 3 0.75 3 2.45		0 10 0 12 0 5 0 9	9			:::::	Broad River Power Co. U. S. W. B. Aerological Stø Agent C. and W. C. Ry. Southern Public Utilities. U. S. Weather Bureau. M. M. Calhoum.
Heath Springs Hogback Mountain . Kershaw Landrum Laurens	Lancaster	56 302 50 106	8 28 5 4 10 14 13 15	74. 3 76. 6 74. 6	-2.3 -1.1 -0.7	97 104 100 108	24 †24 †24 24	49 46 45 49	†	1 44	5. 89 4. 57 3. 90 4. 05	-0.6 -0.9 -0.1	1 1.08 6 0.98 1 2.10		0 1	6 7 18 9 16	1:	21 4 2	e. W. e.	J. Murvin Bowers. Bine Ridge Forests Co. John W. Hamel. R. Hartwell Wilds, D.D.S. L.G. Roff.
Little Mountain Newberry Pelzer Saluda Santuck	Newberry Newberry	. 85	$\begin{vmatrix} 2 & 26 \\ 60 & 26 \\ 66 & 28 \end{vmatrix}$	<sup>b</sup> 75.8	2.8	b102	24 24  24 24	48 646 42	:::::	1 43 1 44	3.37 4.34 5.24 4.08	+0.2	1 0.9		o i	0 17 9 1 10	i	3	9 w.	Miss Alberta Sease. John H. Baxter. Joshua V. Jones. B. B. Blease, E. W. Jeter. M. H. Daniel.
Spartanburg. Trenton Walhalla Whinshoro Winthrop College	Spartanburg Edgefield	62 106	20   3° 51   30 45   30	76.0 73.0 6 576.2	$\begin{vmatrix} -2.5 \\ -2.2 \\ +1.5 \end{vmatrix}$	102 102	24 24 24 24 24 24	44 51 42 551 50		1 39 1 37 1 44 1 536 1 38	3.89 3.50 3.1 2.70 4.00	-0.7 -1.6 -1.5 -0.6	8 0.8 64 0.7 62 0.8 67 1.0	0 2 2 5	0 0 0	8 22 9 10 9 18 7 12 8 9	1 1 1	9 2 9	7 sw. ne. 7 se. 2 s. 8 e.	Mrs. S. E. Long.
Division means an Section means an	d extremes			74.4	1		24 24	42	1	1 48		1				10 1		1	9 e.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, \*, \*, \*), appearing in the table indicate number of days missing; for example, \*p represents two days missing, etc. of the state of the s

### ERRATA.

May, 1930.—Landrum, lowest temperature and date, page 18, should be 45 on 25th. Newberry, total precipitation, pages 18 and 19, should be 9.34. Orangeburg, greatest 24-hour precipitation, page 18, should be 0.65.

### Daily Precipitation for June, 1930.

Street	Drainage-															Day	y of n	nont	h.		_						_	_	_	_			-
Stations.	bastus.	1	2	3	4	5	6	7	8	9	10	n	12	18	14	15	5   16	17	18	19	20	21	22	28	24	25	26	27	20	200	20	-	Total.
Rastern Portion.	Const					Т.	1						1	1	1	1		-	1 10	1 10	20	21	22	28	24	25	26	27	28	29	80	81	To
lackville	Edisto				. 38 T.	. 08		1. 43	T				3 . 08	1.1.	4	02.0	00 T.		6 1 75				.81			. 36					. 25		6.74
teraw III	Const				.53			- 56		. 69			91	. 50	0 .1												.09	66		· ir	·r·		6, 59
onway III	Waccamaw							. 40	. 76	09	. 09			T.	2	0.0	9 .0	1.6	2 . 16									. 91					2.89
arlington III	Pee Dee							co			.25			0	4 9	2 0	0	1 41									- 1	- 1		- 1	Т.		5.78
ilingham irguson	Lynches				• • • • •			. 76	. 06		. 14			iii	1 .07	7	2	1.7	4 .26					• • • •		. 08		15					8,69
orence 2	Pee Dee							. 33	. 05	::::	. 25			. 03	1 . 28		2 .0	. 59	9 1.76			T.				.23	.14	. 42					5.07
rnett	Savamah				78		. 18	. 30		• • • • •	. 28			T.	. 26	1 . 5.	5 05	1 9	7 00									0.4	4				8.71 8.56
eorgetown	Const							T.		1.02	····			Y	1	1		1	1			. 20					.38 .				T.		8, 86
arion	Bhick							.60	T.	. 10	.20		::::	1.51	. 08	1 . 10	0 .51	. 06	1. 40	.33	. 02	.06	.09			.72	1	.23 .			. 37 .		7.61
ars Bluff.	Pee Dee do					.31		1.04	. 17	. 44	. 27			. 04	.43	. 10	5 .60	. 28									.60 1						5.90 3.44
angeburg	Cooper					. 15		. 30	T.	T.				24	0.1	. 16	6 . 66	. 76	1.71			. 07	11				.07	43 .					5.31
mini								3		• • • •	• • • • •	• • • •	. 30	. 09		.44	4 . 40	1.10			. 10	.09.			i	.00 1	1.00	92 .		.15	.30	:::	5.80 7.67
ciety IIIII all	Sautee Pee Dee		••••			.10		. 36 .						. 08	. 46	.50		1. 79								. 16 1	91			1			4.66
mmerville	Pee Dee. Asldey Wateree					.08		.81	. 19				. 29	T.	. 25	. 07	. 09	. 53	1 39	20		17											2.27
																										. 79	. 25 2.	00			. 03 .		4. 43 6. 40
Western Portion.	Ashepoo				.25 1	. 50	. 07	. 81 i	. 05					.58	. 23	. 07	.70		.37	.08	• • • • •		50	., .			20						6, 43
dersan	Edisto				07			1 07	- 1	- 1	- 1				. 17				1 1								. 30				.30 .		
	Sayanuah		:::			.71	1. 12	.18		. 05		,		. 25			. 16					.13.		::::	49	46	:::::::			.28			2.58
sar's Head Iboni Falls III	Saluda					50 1	1. 09			. 44 .			- 1		. 07			1, 15	. 05			15	• • • • • • • • • • • • • • • • • • • •	•••	47 2,	16 .		72					3.81
	Wnteree				:::	:l	. 43	.80 .	:::		:::				. 30		. 03				- 1		52										4.89
hwba III	Catawba					10	. 15			- 1		1					120	1.00	.21					•••		18 .	. 03 1.	75	• •   • •				4.21
rokee (near)	Saluda					06	08	61							. 06			1.61	. 10			.03	· ii · ·	•• •		25	.091.	35					3.79
Stor.				2	.05	23	. 14	. 15	::::	:::::	:::			. 45		• • • •	. 21	. 43	.09														2.69
iningla	Savannah					27 1	.79	00		. 31 .			т.	. 04	.22	.02	. 05	. 06		::::	2	.50	:::::			39	. 10	08					6, 00 5, 68
	Enoree					04 1	.84	. 53 .						.07	. 03	. 04	. 26	. 32				. IN			07								3.98
West***	Savannah				T	40	80		1	T.								- 4		- 1							36						5.64
ton Shouls III	Snynnmh					21	.12 .	42			- 4		- 4	10			1000		1.39		.06	. 19			75 .	23	.01	··					2.59 3.29
enwood in	Saludado					93 1	. 59 .	1	ia II.	04				97	0.6	7.	0.0	0.0			m' '						. Db .	48	:: ::				2.75
tth Springs	Witteree		:::		:::::::::::::::::::::::::::::::::::::::	35	. 14	. 66		95				. 16	. 37	. 21		. 06	1.06	.07 .		.04	48		26 .	24							5.23 3.64
	Broad	• • • • •		• • • • • •													1.80	. 23		::::	::::		48		18	••	98			54 .	04		5.89
shaw	Lynches							.73			06 .			. 09	. 02	24	. 36 1	00	0.1					1									
	Broad			:::  '7	r. ·	98 16	. 48		4.4		- 1			. 26 .			. 25	. 51	. 60 .		::::	82		: ::	:: ::	06		91			98	••	1.57 3.90
derry	Sminds					1	. 20	.14		1				. 05	. 25		.40					23											4.05
er mil.	do					11.5	3/ .	20						. 19	. 21							60			1. 3	20	76 1.4	2				. 1 .	3. 37 4.34
	do				•• ••									15	. 50		T.	. 12	. 15 .			06 1.	15			68 .		7				4	5, 24
reambirg	Broad					90 .	17			02			.02	17	. 10	т.			- 4	. 29				1				1					
ноп	Edisto				33 T		35	90					• • • •	28 .	40	T.			. 48 .			28				19	36 . 2	2		:::::	::::	. 8	1.08 3.89
usboro illi	Brond	• • • • • • • • • • • • • • • • • • • •					44	11		72				23 .	. 10 .		. 31	. 09 .				35		1		13	30						. 56
throp College (	atawba				.: ':i	5 .	68	11	:	:::::	:: ::					.09	.59	. 82	.20	Γ.													. 76
14.	1	V.	1	1	1	1	- 1	- 1	1	1	1							. 42	. 44 .	15					1	8	1.0	5				4	. 06

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the three of hour period, midnight to midnight. \* Precipitation included in the next following measurement. Separate dates of falls not recorded. To Trace, or less than 0.04 inch.

### COMPARATIVE DATA FOR JUNE.

				(		(			7	47		•							
	Te	noperati			itation.		days.	ber of	lling direc-		Te	niperatu	re.	Precip	itation.	Averag	e num days.	her of	direc.
Year.	Mean.	Highest	Lowest.	Average	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevaili wind din tion.	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di
	77. 9 78. 1 74. 4 80. 9 79. 3 75. 1 76. 5 77. 0 78. 2 79. 7 79. 7 76. 2 76. 7 78. 5 74. 0 78. 9 78. 9 76. 6 79. 2	107 102 99 96 105 105 105 105 105 105 105 105 105 105	44 51 39 56 53 53 41 50 52 49 55 48 52 48 48 52 48 48 58	3. 58 2. 73 5. 10 2. 41 3. 20 5. 7. 64 3. 91 8. 04 5. 42 6. 42 6. 55 4. 48 8. 09 4. 09 4. 09 4. 09 6. 87	8 7 10 8 8 8 12 12 8 8 8 14 12 9 14 8 6 6 12 10 9 12		11 12 13 12 13 10 10 10 15 12 10 10 10 7 7 14 8 13 13 14		SW. 50. SW. SW. SW. SW. SW. SW. SW. SW. SW. SW	1910. 1911. 1912. 1913. 1914. 1914. 1916. 1916. 1916. 1917. 1918. 1919. 1920. 1922. 1923. 1924. 1925. 1927. 1928. 1927. 1928. 1929. 1929.	75. 5 80. 9 75. 5 76. 2 81. 1 76. 0 76. 4 77. 0 78. 2 78. 2 78. 2 78. 2 78. 7 80. 4 77. 4 79. 2 78. 2 77. 1 74. 9 76. 0 74. 8 75. 1	98 106 101 105 108 103 100 102 106 101 105 103 101 101 104 105 103 104 104 105 104 106 107 108	46 54 48 40 50 49 48 43 50 50 52 50 52 49 44 43 43 46 46 47 46 42 48	7. 78 3. 42 5. 68 5. 53 3. 80 4. 26 5. 12 4. 49 3. 41 5. 97 3. 41 5. 48 2. 31 5. 12 3. 09 4. 41 5. 67 5. 58 6. 73 4. 40 4. 84	13 8 9 12 8 8 9 11 18 7 7 10 6 6 6 11 8 8 13 12 11 10 10 10 10 10 10 10 10 10	10 14 13 15 14 14 12 16 15 11 19 16 16 11 19 16 18 11 19 18 11 19 18 11 11 19 11 11 11 11 11 11 11 11 11 11	11 12 7 9 12 10 11 10 9 9 7 7 11 11 9 9 10 7	9 4 4 10 6 6 4 4 6 6 10 4 4 4 5 5 5 8 6 6 12 13 8 8 9 9	SW. SW. SW. SW. SW. SW. SW. SW. SW. SW.

								Da	ily	Ten	aper	atu	res	for	Ju	ne,	198	30.		4				-							
	Stations.	1	2	3	4	5	6	7   1	8 9	1	0 1	1 1	2 1	3 14	18	5 16	1	7 18	19	20	21	22	23	24	25	26 27	28	25	80	31	Mean.
Bh Ch Ch Co Da Fe Fl Ga	Enstern Po tion.  Marinum.   79 544 83 49 755 61 84 49 83 45 86 86 84 45 86 86 86 86 86 86 86 86 86 86 86 86 86	80 57 86 53 77 64 89 50 86 49 90 47 91 48 90 51	78 62 55 58 76 69 76 83 54 83 54 85 85 85 85 85 85 85 85 85 85 85 85 85	75 68 79 65 78 72 89 54 85 88 57 83 66 88 67 88	84 69 87 73 88 68 68 68 69 90 68 92 67 67 68 68 68 68 68 68 68 68 68 68 68 68 68	82 68 84 70 82 73 85 66 85 64 88 67 87 68 87 68 87 68 87 68 88 87 68 88 88 88 88 88 88 88 88 88 88 88 88	85 69 65 83 68 68 68 68 68 69 86 68 68 68 68 68 68 68 68 68 68 68 68	8   9   9   9   9   9   9   9   9   9	81 60 84 56 82 68 62 82 67 78 62 85 65 91 66 83 60 81	77 65 87 56 83 63 85 55 87 57 88 55	74 65 59 80 67 55 83 55 83 55 86 87 55 86 87 55 88 86 87 88 88 88 88 88 88 88 88 88 88 88 88	81 68 85 61 77 66 80 60 83 59 81 60 88 56	80 67 77 65 75 69 80 65 82 67 79 60	85 71 83 66 78 70 83 64	80 65 86 67 72 85 68 67 86 67 88 67 88 67 88 67 88 67 88 68 88 88 88 88 88 88 88 88 88 88 88	82 665 684 687 770 779 67 88 88 68 67 770 88 88 86 87 770 88 88 88 88 88 88 88 88 88 88 88 88 88	95 69 84 67 83 73 84 67 88 67 88 67 88 86 88 88 88 88 88 88 88 88 88 88 88	88 97 1 78 1 78 1 78 1 78 1 78 1 78 1 78	20 80 814 877 99 99 99 99 99 99 99 99 99	9 91 9 91 9 92 755 89 72 2 755 877 700 72 2 88 88 88 88 88 88 88 88 88 88 88 88 88	93 70 93 69 92 71 95 68 94 62 93 69 95 67 95 68 95 69 95 68	98 74 95 69 91 76 96 67 95 68 98 70 95 69 88 88 96 71 97 64	95 72 97 70 93 77 103 66 98 68 68 99 70 101 73 92 69 88 88 70	92 72 92 72 95 74 86 75 98 72 90 72 90 72 96 73 98 88 72 99 88 72 99 69 88 73	90 5 70 7 93 5 71 6 98 8 73 7 98 8 71 6 90 92 8	944 666 691 199 191 190 191 193 193 194 195 195 195 195 195 195 195 195 195 195	94 659 669 669 674 91 64 91 64 91 66 90 66 90 65 96 86 96 96 96 96 96 96 96 96 96 96 96 96 96	85 8 85 8 870 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8	85. 68. 86. 65. 82. 70. 87. 63. 87. 64. 89. 65. 88. 65. 88. 65. 88. 65. 88. 88. 65. 88. 88. 86. 88. 86. 88. 86. 88. 86. 88. 86. 88. 86. 88. 86. 88. 86. 88. 86. 88. 86. 88. 86. 86	
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K La La La La La La La La La La La La La	ogback Mouutain Makimum Makimum Makimum Makimum Minimum  80 80 80 80 80 80 80 80 80 80 80 80 80 8	90 49 90 61 87 56 88 50 88 45 88 88 88 88 88 88 88 88 88 88 88 88 88	90 533 89 51 86 58 86 86 89 55 50 87 87 87 88 88 88 88 88 88 88 88 88 88	92 56 90 54 83 57 86 58 53 78 86 63 87 87 86 63 87 86 60 85 56 66	91 69 78 68 83 69 88 89 69 79 69 79 88 67 67	85 68 83 65 80 67 83 85 81 66 81 67 81 66 81 67 88 81 66 81 66 81 81 81 81 81 81 81 81 81 81 81 81 81	86 66 83 64 85 69 87 66 67 68 81 68 82 58 86 67	89 64 81 58 83 59 88 60 85 58 83 58 86 66 65 82 58 80 65 82 60 66 86 66 66 66 66 66 66 66 66 66 66 66	83 56 75 49 79 60 75 80 57 78 80 57 78 58 78 58 78 57 78 57 57 57 57 57 57 57 57 57 57 57 57 57	89 52 83 49 82 50 88 88 53 86 50 82 48 75 48 82 65 81 82 65 81 85 65 81	90 58 85 54 85 54 86 67 88 54 85 48 54 86 86 86 86 86 86 86 85	86 59 80 59 64 60 87 60 88 88 83 55 81 82 83 85 86 86 87 60 87 61 88 88 88 88 88 88 88 88 88 88 88 88 88	83 66 80 64 80 67 63 81 65 84 62 85 85 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 63 81 81 81 81 81 81 81 81 81 81 81 81 81	86 64 85 63 84 65 83 68 64 85 66 86 86 86 87 64 87 64	86 64 88 64 85 65 86 86 86 86 86 86 86 86 86 86 86 86 86	51 64 83 61 79 64 78 65 77 66 77 67 67 68 76 68 76 68 76 68 76 68 68 68 68 68 68 68 68 68 68 68 68 68	68 85 66 81 68	68 88 64 89 66 84 70 91 65 90 67 87 65	69 69 69 69 69 69 69 69 69 69 69 69 69 6	2996866 98686866 866866 866866 866866 8668	9 664 944 948 70 11 948 666 97 666 97 667 9 95 11 95 8 92 6 64	67 97 66 96 68 98 65 98 65 98 65 98 65 98 65 98 65 98 65 98 65 98 65 98 98 65 98 98 65 98 98 98 98 98 98 98 98 98 98 98 98 98	7 666 7 100 6 66 103 6 67 104 6 69 102 6 68 102 6 67 103 6 68 102 6 68	700 988 688 966 700 966 67 97 69 101 666 95 62 93 71 968 74 97 95 95 968 968 968 968 968 968 968 968 968 968	100 69 97 67 96 70 97 100 71 98 71 96 69 94 70 98 68 95 71 96	98 66 89 65 1 92 67 88 63	94 63 93 61 90 65 87 63 92 64 90 68 91 68 91 68 91 68	64 94 96 96 92 96 95 95 95 95 95 95 95 95 95 95 95 95 95	87 44 44 44 45 46 46 46 46 46 46 46 46 46 46	63. 88. 61. 87. 63. 87. 62. 688. 662. 688. 662. 686. 69. 84.	

Reference letters (\*, b, c), appearing in the table Indicate number of days missing: for example, b represents two days missing, etc.

M Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 7-25-30-900

# CLIMATOLOGICAL

### SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

or XXXIII.

COLUMBIA, S. C., JULY, 1930.

### GENERAL SUMMARY.

The average temperature was close to the maximum July all was considerably below normal and badly distributed as to reas and amounts.

Generally deficient and irregularly distributed rainfall in oward the end of the month, and late corn, truck, and other pland crops were rather badly parched by two prolonged heat raves, relieved only by occasional showers. However, growas turned to late corn, forage, and some cotton. Sweet po-ato transplanting and the white potato harvest were practially completed during the last week, and early sweet potatoes ppeared on market. Tobacco curing proceeded throughout he month. Tree fruits, blackberries, melons, and various vith all crops needing rain.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 egular Weather Bureau stations in and surrounding the See-Due West on the 19th; the lowest pressure was 29.71 inches at Charlotte, N. C., on the 14th, and in the Section proper, 29.76 days, respectively. nches at Columbia and Greenville on the same date.

### TEMPERATURE.

The monthly mean for the Section, determined from reports of 42 stations, was 81.9°, or 2.1° above normal. The highest temperature was 108° at Calhoun Falls on the 12th. During the marked warm periods, 5-13th and 20-30th, the daily mean temperatures ranged generally from 5° to 13° above normal, and July maximum temperature records were broken at a number of interior stations. The lowest temperature was  $52^\circ$  at Spartanburg on the 17th. There was one short period of cool weather, from the 5th to the 18th, when the daily mean temperatures ranged from 5° to 15° below normal.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 regular Weather Bureau stations in and surrounding the Section, was as follows: 8 a.m., 78%: noon, 54%: 8 p. m., 67%. The highest percentages occurred along the coast, and the lowest, in the northern interior.

### PRECIPITATION.

The average for the Section, 54 stations reporting, was 4.80 inches, or 1.07 inches below normal. Precipitation occurred in three periods, but the bulk of rainfall occurred gen-

erally during the middle of the month. On the lower coastal plain and in a few small areas of the central sections, the monthly amounts ranged from 6 to over 9 inches, but in extensive areas of the upper coastal plain and the northern counties, the measurements ranged downward from 5 to less than 3 inches. The greatest local monthly amount was 9.72 inches at Yemassee; least local monthly amount, 2.06 inches at Caesar's Head. The greatest amount during any 24 hours was 4.06 inches at Due West on the 14th and 15th. The average number of rainy days was 22% below normal. Light hail ocverages in 1887 and 1893, with record-breaking maximum number of rainy days was 22% below normal. Light hail oc-emperatures for July at several interior stations. The rain-28th, Clemson College on the 27th, Laurens on the 29th, and Walhalla on the 31st.

Deaths by Lightning .- Mr. John Garner, near Cherokee xtensive areas began to show material effects in the Piedmont (near), July 1. James Hawkins, colored boy, afternoon of 28th, at Taylors.

Damage by Lightning .- On 13th, at 1 p. m., near Eastover, rural residence fired by lightning and burned; damage about ng conditions were materially improved by a rather prolonged \$5,000. Rural home near Trenton was struck by lightning and eries of rains during the middle of the month. Cotton plants beree vigorous, and the erop bloomed and fruited freely; the test open boll was picked near Barnwell on the 14th, or 15 lays earlier than normal. Small grain threshing was compared that of the lays earlier than normal. Small grain threshing was compared to the lays earlier than normal. Small grain threshing was compared to the lays earlier than normal. Small grain threshing was compared to the lays earlier than normal. Small grain threshing was compared to the lays earlier than normal. Small grain threshing was compared to the lays earlier than normal threshing was compared to the lays earlier than normal. Small grain threshing was compared to the lays earlier than normal threshing was compared to the lays earlier than normal. Small grain threshing was compared to the lays earlier than normal threshing was compared to the lays earlier than normal. Small grain threshing was compared to the lays earlier than normal threshing was leted toward the end of the month, and much stubble land Jersey cows and one bull were killed by lightning near Cherokee (near) on July 31; loss, about \$1,000.

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was tinds of truck were marketed in season. The month closed 6.0 miles. The highest velocity for any 5-minute period was 41 miles per hour from the northeast at Charleston on the 25th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 293.3 hours, or 67% of the possible ion, was 29.99 inches. The highest pressure was 30.23 inches at amount. The average number of clear days was 16; partly eloudy, 8, and eloudy, 7, as against normals of 13, 11, and 7

### RIVER CONDITIONS.

All streams of the Section were below flood stages during

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Columbia, 2, 5. Solar: Columbia, 2, 13; West. 2; Santuck, 2.

Fog, dense. - Due West, 30, 31; Landrum, 16.

MIS	CELL	ANE	ous	DA	TA I	OR .	JULY,	180	J			
	sea	Temp	erati	ire. ahr.	Preci	n,	Win 3-eup A		re	lean lativ nidit	e	tage of pos-
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	S a. m.	Noon.	8 p. m.	Percentage of sible sunsmi
Asheville, N. C Angusta, Ga Charleston, S. C Charlotte, N. C. Columbia, S. C Die West, S. C Greenville, S. C. Savannah, Ga. Wilmington, N. C. Means and ex-l	30, 00 29, 98 30, 00 29, 98 29, 98 30, 02 29, 98 30, 00 29, 99	74.5 83.9 83.9 81.6 82.4 81.4 81.0 83.6 81.6	96 104 99 102 104 105 102 100 98	56 67 71 62 65 62 60 69 65	1. 12 4. 37 6. 09 2. 84 6. 47 6. 47 3. 76 6. 39 7. 48	0. 27 1.39 2. 10 1. 76 1. 87 4. 06 1. 40 2. 89 3. 65	5. 3 4. 3 8. 4 8. 5 4. 9 6. 4 6. 4 9. 2 5. 8	n. sw. sw. sw. sw. sw. sw. sw.	82 77 76 74 80 75 74 80 83	48 50 62 49 55 51 51 60 63	58 64 80 57 66  58 74 82	60 70 73 64 64 65 69 65 71
tromes	29.99	81.5	105	56	5 00	4.06	6.0	SW.	78	1 94	1.03	. 07

### Climatological Data for July 1930

					Cli	imato	ologic	al D	ata f	or J	uly, 1	980.								
	Temperature, in degrees Fahr. Precipitation, in i								in in	elies.	Nur	nbero	f d	ays.	tion					
Stations.	Counties.	Elevation, feet.	Length of re	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelled.	With precipit on (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Eastern Portion,			1																	
Beaufort (near)‡‡ Bluckville Churleston Cheraw	Beaufort	21 296 48 144	49 46 59 48	83.7 82.5 83.9 81.4	+2.3 +1.1 +2.5 +1.4	102 104 99 105	28 12 8 † 9	69 65 71 64	28 3 11 16	29 30 26 37	5.83 7.50 6.09 2.78	-0.28 +2.00 -0.80 -3.32	1.86 1.82 2.10 0.68	0 0 0 0	11 12 11 7	17	11 10 17	3 4 6	s.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weuther Bureau. Roland D. Powe.
Conway Darlington Effingimm Ferguson‡‡	Horry Durlington Florence Orangeburg	25 175 106 63	40 35 59 44	83. 0 82. 0 82. 9	+3.1 +2.1 +3.4	102 102 	8 9 	67 64 66	† 1 †16 1	29 31 	5.84 3.33 4.57 8.20	-0.87 -2.39 -1.55 +1.56	1. 62 1. 15 1. 20 2. 41	0 0 0 0	12 11 12 10	22 15 	8		sw.	Paul Qimttlebanin, D. C. McCall, Win, B. Gillespie, Henry C. Savage,
Florence 1 Florence 2 Garnett Georgetown Kingstree.	Florence do. Hampton Georgetown Williamsburg	136 136 82 18 54	48 15 12 37 48	83, 6 83, 9 82, 0 83, 6	+2.4 +2.8 +1.3 +3.2	108 104 98 104	† 9 † 7 † 8 9	65 65 67 67	16  † 1 1	34  31 25 32	3.39 2.94 8.45 3.83 4.73	$ \begin{array}{r} -2.49 \\ -2.94 \\ +1.13 \\ -4.07 \\ -1.85 \end{array} $	0.70 0.85 2.20 2.45 3.00	0 0 0 0	18 7 10 8 8		9 8 11 4	11 4 4 3 7	sw. s. w. w.	H. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Brooklyn Cooperage Co Mrs. Ellen Scott.
Marion Mars Bluff Orangelourg Pinopolis†† Runini	Marion Florence Orangeburg Berkeley Suniter	68 92 264 54 97	5 7 14 83 16	82.8 82.9 h83.8	+2.9 +5.9	104 103 98	9 12 9	64 68 h73	16 † 1 † 1	35 29 	4. 81 4. 67 5. 36 5. 85 5. 10	-1.81 -0.94 -2.76	1.57 1.20 2.03 1.60 1.86	0 0 0 0	14 14 8 10 5	12	8		e. sw. sw.	Alden F. Schell. Roza R. Davis. U.S. Fisheries Station Miss E. P. Ravenel. Floyd C. Martiu.
Society IIII Summerville Sumter Wedgelield Yennssee	Darlington Dorchester. Sumter Sumter Hampton	192 75 169 249 24	39 32 6 40 41	°82.6 83.4 81.8	+3.0 +3.5  +2.3	°105 103 100	† 9 †10 9	°68 67 66	†16 † 1 † 3	°33 32 32 32	4. 84 8. 14 5. 27 9. 68	-1.71 +1.18 +2.56	1.30 3.19 1.62	0 0 0	10 10 9	18	9 9 82	<u>.</u> .	w. s. sw.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson,
	extremes			82. 9	+2.5	105	† 9	63	†16	37	5.51	-0.81	3.19	0	10	17	8		sw.	T. O. HIRSON.
Western Portion.																				
Aiken Anderson Blairs Cæsars Head‡‡ Calhonn Falls Cannden	Aiken Anderson Fairfield Greenville Abbeville Kershaw	527 764 293 8118 508 222	68 37 25 6 81 80	82. 8 81. 4 6. 96 82. 9 81. 2	+2.7 +1.9 +1.0	104 104 93 108 100	12 12 7 12 † 7	66 62  55 62 63	16 16 16 16 16	31 32  38 36 30	4. 04 3. 51 6. 92 2. 06 4. 72 3. 99	-0.88 -1.47 +1.88 -0.44 -1.32	1.49 0.83 2.72 0.62 1.49 0.82	0 0 0 0 0	9 8 8 5 6 10	12	1 0  7	5	SW.	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Cosar's Hend—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba Chuppells. Cherokee (near) Chester Clemson College Columbia	York Newberry Spartanburg Chester Oconee Richland	562 402 758 487 850 851	24 25 2 8 8 8 44	79. 2 80. 7 82. 4	+3.2 +1.5	102 104 104 104	12 12 12 12 12 12	58 60 65	3 †3 16	37 41 31	4. 99 5. 65 3. 51 6. 16 8. 64 6. 47	-1.10 +0.84 -1.64 +1.12	2.05 3.03 1.08 2.35 2.00 1.87	0 0 0 0 0	7 7 7 6 10 14	13 1	1 8 2 5	8	sw. ne. w. sw.	James C. Faris. William Spearman. Spartanburg Water Works. J. C. Cornwell. Prof. F. H. H. Calhonn. U. S. Weather Burenn.
Crescent. Due West. Edgefield †† Gaston Shoals 1]. Greenville.	Spartanburg Abbeville Edgefield Cherokee Greenville	630 711 680 1039	4 16 16 27 46	81. 4	+2.2	105	12	62	8	34	3. 67 6. 47 4. 30 3. 88 3. 76	+1.89 -1.12 -0.72 -1.60	1. 16 4. 06 1. 31 1. 43 1. 40	0 0 0 0	7 11 6 7 9		5		sw.	Broad River Power Co. U. S. W. B. Aerological Sta. Agent C. and W. C. Ry. Southern Public Utilities. U. S. Wenther Burean.
Greenwood. Heath Springs Kershuw Landrinn Laurens	Greenwood. Lancaster. Kershuw Spartanburg. Luurens	568 500 1063 589	46 28 14 15 12	81. 2 80. 6 82. 1 82. 3 82. 6	+2.2 +1.3 +3.1 +5.2 +4.1	106 100 107 103 5105	18 † 9 12 12 12	62 62 63 61 61	16 16 2 16	38 31 37 37 537	5. 10 3.43 4. 10 2. 10 3.59	-0.11 -1.58 -2.20 -5.40 -1.33	1, 59 1, 43 2, 16 0, 66 1, 20	0 0 0 0		7 20	8 8 8	20	w. w. w.	M. M. Calbonn, J. Marvin Bowers, John W. Hannel, R. Hartwell Wilds, D.D.S, L. G. Roff,
Little Mountain. Newberry Pelzer Saluda Santuck	Newberry Newberry Anderson Saluda Union	711 502 850 536 512	37 26 26 28 37	83.3 83.2 83.2 80.6	+3.3 +2.5 +3.1 +1.0	106 106 106 104	9 12  13 † 9	62 62 60 59	1 3 † 8 3	37 35 38 41	4.12 5.02 3.02 3.96 5.88	$\begin{array}{c} -0.66 \\ -0.36 \\ -2.55 \\ -1.22 \\ +0.75 \end{array}$	1.00 2.00 0.82 1.25 1.78	0 0 0 0 0	9 10 6 6 9		8 9	6	s. w. w. w.	Miss Alberta Sease. John H. Baxter. Joshna Y. Jones. B. B. Blease. E. W. Jeter.
Spartanburg. Trenton Waltalla Winnsboro Winfhrop College †	Spartanburg Edgelield Oconee Fairfield York	875 620 1061 545 690	53 37 30 36 30	79. 4 82. 2 80. 2 82. 4 81. 2	+0.1 +2.0 +3.1 +2.8 +2.0	103 107 106 105 103	12 12 12 12 12 † 7	52 64 55 63 61	17 † 2 3 8 15	38 37 41 33 35	4 38 4.63 2.42 4.09 4.69	-0.34 -0.87 -3.66 -0.92 -0.68	2.20 1.92 0.54 1.05 1.54	0 0 0 0	9	9 1	9	7	sw. sw. w.	M. H. Daniel. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
	extremes	- 1		81.1	+1.8	108 108	12 12	52 52	17 17	41 41	4.32 4.80	-1.03 -1.07	4.06 4.06	0	8 9		8		w. sw.	
	1.		1	1	1	1		1	1					1	1		1	1		

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. f Also on other dates. If Received too hate to be included in means and summaries. Temperature data are from observed readings of the dry hulb; means are computed from observed readings. If Post-office addresses of these stations are of follows: Of Gaston Shoals, Blacksharg; of Windtono College, Rock Hill; of Ferguson, Entawville; of Casar's Black, Green'lle; of Beaufort (near), Burton. & Observations taken from dry bulb thermometer at 7 a. m., 3 p.m. and 10 p.m. Threelpitation is less than 0.01 inch of rain or melted show.

### ERRATA.

June, 1030.—Marion, greatest precipitation in 24 hours, page 22, should be 0.60. Trenton, wind direction, page 22, should be southeast.

Daily Precipitation for July, 1930.

	Draluage-														-	Day	of m	onti	1.														
Stations.	basins.	1	2	3	4	Б	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	21	25	26	27	28	29	30	31	1cts
Eastern Portion, anfort(near), nekville    1. nrleston *** oraw       nway	Coast			. 68								i. i i		. 10	.05	.31	. 84	.01	1.79 T.	. 76 T. . 28					.45	. 68		.60	T.			1.27	5, 83 7,50 6,09 2,78 5,84
rlington		2.41 .34 .12		.14	. 03  T.	. 30 . 51 . 53 . 64 . 85	T.		.10			T .31		T.	. 31 . 19 . 63 . 06 . 08	. 19 . 31 	. 42 . 12 . 92 . 05 . 75 . 90	. 45 1. 20 1. 90 . 70 . 2. 20	1. 08 . 22 . 48 . 13 . 25 1. 60	.12 .30 .74 .04					. 14	. 98 T. . 01	. 69	T' .08	.12 .18 .32 .02	.18	.16 .19 T.	.17 .18 .10	3, 33 4, 57 8, 20 3, 39 2, 94 8, 45
orgetown ngstree#h rion rs Huff ngehnrg nopolis	Coast Black Pee Deedo Edisto Cooper	. 25	.05	.15	. 33	Ť.		.21	.02					. 45	.60 .06 .09	.11	2.45 .30 .12 .15	. 04 3, 00 1, 57 1, 20 2, 03	.06 .64 .40	. 55					.11	. 19	.12	. 05	.05	.21	. 66	.29 .05 .55 .16 .06 .35	3, 83 4, 73 4, 81 4, 67 5, 36 5, 85
ninl      dety   Itill      mnerville      nter dgefiela mssee	Sautee Peo Dee Ashley Wateree do Ashepoo	. 45	. 22		:::									. 20	. 24	. 89 . 03 1. 30	. 40 1. 82 . 14	3. 19	. 62 . 60 . 40	.40						.09	.75	. 83	. 01	• • • • •	1.62	. 86 . 70 . 29	5. 10 4. 84 8. 14 5. 27 9. 63
Western Partian, sen derson drs []] sar's Head houn Calls []] aden []]	Kdisto Savannah Broad Salada Savannah Wateree					2.72	.25	. 32	Ť.							. 75 . 76 . 12 1, 49	. 74	. 60 1. 15 . 17 1. 24				:		. 55	. 62	. 83			. 37	. 69		.30	4.04 3.51 6.92 2.06 4.72 3.99
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e West*** gefield	Savannah Savannah Broad Sahida do Wateree	T	. 14 . 67					т.						т.	2. 64  . 69 . 10 . 08	1. 43 1. 16 1. 43 . 91 1. 59	. 83 . 98 . 31 . 90 1. 20	. 01 . 22 . 78 T	. 05					.02		. 02		.01	1.01 .03 .18	23 1.31 .49 .06	.24	.03	6, 47 4, 30 3, 83 3, 76 5, 10 3, 43
rshaw     ldrinn frens de Mountain wherry zer     uda	Lynches Broad Saluda Saluda Saluda Saluda do do		 .65 .27 T.			.02		Ť						. 07	T.	1,20	. 51 . 68 . 32 . 50 . 82	. 66 . 05 . 25 . 20	.10					т.	T.			.25	1.00	1.13 2.00 .08	. 35 . 42 . 15	.35 .04 .36	4. 10 2. 10 3. 59 4. 12 5. 62 3. 02 3. 96
itnek retamburg	Brond	. 21		.56		.20	::::	.30								2.20 1.92 .10 .45	1.10 .29 .05 .45	. 68 .27 1. 10	. 12					54	Т.		Ť.			1. 10 . 28 . 22 . 19 T. . 22	. 25	.29 .47 .29 .22 .05	5, 88 4, 78 4, 63 2, 42 4, 69 4, 69

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. If Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\* Regular Weather Bureau station; precipitation is for the 4 hour period, midnight to midnight. \* Precipitation included in the next following measurement. Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

### COMPARATIVE DATA FOR JULY.

Temperature   Precipitation   Average number of days.   Femperature   Precipitation   Femperature   Femperature   Precipitation   Femperature   Femperature   Precipitation   Femperature   Precipitation   Femperature   Precipitation   Femperature   Precipitation   Precipitation   Femperature   Precipitation   Precipitation   Femperature   Precipitation   Precipitation   Femperature   Precipitation   Femperature   Precipitation   Fe																				
Near			Temperat	ure.					ber of			Te	mperatu	re.			Averag	e nnm days.	ber of	
82.0         110         60         7.49         14         1910         78.4         102         58         5.83         18         9         15         7         8W.           78.9         100         53         3.68         8         8W         1912         75.6         102         58         3.79         10         12         11         14         10         6         5W.         1912         78.8         102         58         3.79         11         14         10         6         78.8         78.9         102         58         3.79         11         14         10         6         78.8         78.8         1912         8.8         1914         8.0         106         56         4.78         9         15         6         77         8W.         77.9         93         56         5.95         8.8         1914         80.0         107         53         5.16         9         14         13         4         8W.         1916         77.8         99         60         14         13         4         8W.         1916         77.8         99         60         14         69         13         4         4         8	Vear.		Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	art	Cloudy.	reva wind tio	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	W.e
	(목 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등	78.5 79.5 78.6 77.0 77.0 80.0 80.0 80.0 80.0 80.0 80.0	103 102 104 93 102 104 100 102 105 107 102 105 107 102 103 103 105 101 100 100 100 100 100 100 100 100	53 51 52 56 51 60 55 54 51 54 47 52 58 45 50 60 56 56	7. 49 3. 68 7. 13 6. 88 5. 95 7. 44 3. 87 8. 14 4. 03 4. 52 3. 79 5. 61 6. 84 0. 64 0. 64	14 8 13 12 9 16 8 13 11 14 9 9 10 9 9 8 12 12 16 11 11	13 8 10 10 13 13 10 12 14 14 12 15 18 13 13 13 13	14 12 15 13 12 10 11 11 12 11 9 12 10 17 11 17 18 19 10 11 11 11 11 11 11 11 11 11 11 11 11	6 8 6	SW. SW. SW. SW. SW. SW. SW. SW. SW. SW.	1911   1912   1918   1918   1919   1918   1914   1916   1917   1916   1917   1918   1919   1920   1922   1922   1924   1925   1926   1927   1928   1938	79.8 79.6 81.9 80.0 80.9 77.8 79.9 77.5 79.3 78.9 79.6 79.6 79.6 81.5 80.5 78.3 79.5 79.5	102 109 107 106 99 102 103 103 102 101 101 104 103 106 108	53 56 56 58 55 60 52 50 51 53 60 51 53 60 54 55 58 57 56 45 55 56 56 57 56 57 58 57 58 58 58 58 58 58 58 58 58 58 58 58 58	3. 79 5. 22 4. 78 5. 16 3. 26 6. 56 5. 60 7. 44 7. 20 6. 93 8. 86 5. 60 7. 44 6. 38 6. 24 6. 81 4. 35 4. 80	10 11 9 9 8 8 17 12 11 - 13 11 14 14 18 - 10 10 13 11 10 9	12 14 15 14 18 5 14 15 13 13 9 9 12 15 14 15 14 15 13 16	13 10 9 13 10 12 9 9 8 10 13 8 9 11 10 11 18 8	14 8 7 10 8 9 6 8 8 5 7 7 8 8 6 7	SW. SW. SW. SW. SW. SW. SW. SW. S. SW. S. SW. S. SW. SW
		10.0	104	- 00	** 02	10	10	12		0111				4.7			10	1.		

93. 9 70. 3 95. 1 69. 5

\$95.2 \$70.0 \$5.6 71.0 \$5.3 71.2 96.8 69.6 93.3 67.9 92.4 66.3 93.5 70.8 94.2 70.7 93.2 69.1

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15 1	6	17	18	19 :	20	21 :	22	28 :	24	25	26	27	28	29	30 3	1 3	Mean.
Eastern Partion.	Í	Ì	1	T	1	1	i	1	Í	Ť	ĺ	ĺ	1	İ	Í	İ	Í	i	1	1	1	ĺ	Í	i			1		1	1	1	
Beaufort(near)   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum	90 70 92 68 90 73 89	91 71 88 67 88 74 89	93 70 92 65 91 73 88 66	98 73 92 68 87 76 89 68	90 75 90 71 86 77 91	93 76 92 71 88 77 99 67	98 75 99 72 96 78 102 72 99	98 74 98 71 99 79 104 72	96 75 100 73 96 78 105	99 75 100 74 98 80 105 68	97 79 99 75 97 71 101	94 75 104 74 91 78 104 70	95 74 100 78 92 78 102 74	92 73 87 73 91 77 84 71	86 70 82 70 84 72 70 66	82 72 76 70 81 72 72 64	88 71 83 70 88 79 84 68	92 75 82 70 86 77 83 72	95 75 90 70 91 77 91 70	98 78 93 72 92 77 95 72	96 77 95 78 96 78 99 75	98 79 96 75 97 79 100 77	102 78 98 75 96 81 100 72	98 79 96 74 93 75 95 72	95 72 98 76 93 73 98 72 96	90 73 95 71 88 74 93 70 95 71 96	83 72 97 72 94 78 94 76	98 69 93 71 92 74 98 72 95 72 96 72	94 70 96 72 95 78 101	94	97 70 92 71 89 74 90	93. 6 73. 8 93. 2 71. 8 91. 6 76. 2 93. 7 69. 1
Conway ( Minimum	68 91 67 88 66	68 93 70 92 66	92 67 89 67	88 70 85 66	68 90 68 90 70	94 70 95 70	99 74 101 75	102 75 100 74	69 97 74 102 71	99 73	96 75 96 72	101 75 100 74	100 74 99 77	87 73 83 72	66 85 70 72 66	82 67 74 64	68 87 67 85 64	72 90 70 82 71	95 70 89 70	95 72 93 73	75 95 74 95 76	77 99 75 96 77	72 100 77 99 77	98 75 95 75	96 71 97 72	95 71 96 69	76 95 74 95 75		72 96 75 97 74	76 98 73 96 76	90 70 87 70 91 69	94. 1 71. 9 92. 5 71. 4
Ferguson M (Minimun) Klorence I (Minimun) Klorence I (Minimun)	88 66 93 67	90 69 94 69	92 68 90 68 93	94 70 91 68	94 70 92 70 95	95 70 94 68	98 72 102 75	101 74 98 73	100 76 103 73	71	97 74 95 74	101 73 100 74	100 74 103 78	99 70 87 74	82 72 79 68 90	80 70 80 65	85 71 88 68 80	84 72 90 72 88	87 74 94 70	92 71 95 72	96 73 99 71	98 76 100 76 99	96 76 100 77 102	97 76 98 77 98 75	94 71 96 72 99 74	95 73 96 71 96	94 78 99 76 97	93 72 99 72 90	95 74 100 75 97	95 76 103 77 99	94 70 90 70 99	93.5 72.3 95.2 72.0 96.4
Garnett   Meximum   Minimum   Minimum   Maximum   Georgetown   Minimum   Min	95 65 85 67 90	93 67 88 69 90	65 91 69 92	94 67 87 69 90	74 86 69 92	99 70 90 70 94	104 75 94 74 101	70 98 75 102	70 98 74 104	98 75 101	108 75 98 76 97	75 97 75 102	103 75 92 71 100	98 75 89 73 89 74	68 82 78 85 74	88 67 83 69 78	70 87 78 85	70 87 74 83 73	92 75 89 72 93	95 70 92 73 95 74	95 75 94 75 97 75	75 95 75 99 76 99	75 96 76 99	75 94 76 96 77	98 76 96	70 95 70 96	70 92 75 95	70 95 77 96 73 97 72	71 94 75 99 76 97	70 93 73 95 75 97	70 88 71 92 70	71. 4 91.1 72. 9 94.3 73. 0
Marion	67 90 67 91	70 92 70 89	69 90 67 91	70 92 67 91	71 95 70	70 98 70 95	75 103 75	75 103 76 99	101	70 100	75 99 72 99	102 73	75 102 75 100	74 83 72 88 75	80 66 85	68 80 64 77 70	72 88 71	86 70 80	70 92 68 91	95 72 91	97 75 94	75 96	77 100 77 98	98 72 94	74 95 70 96	71 95 69 94	75 95 74 94	91	74 95	69 95	89 68 90	94.7 70.9 98.0
Society Hill M. Minimum Minimum Minimum Minimum Minimum Maximum Maximum Maximum	68 66 90	69 96	68 93 64 93	68 93 67 94	72 97 67 95	71 98 68 95 68	74 104 74 100 68	73 102 74	74 105 68	77 78 108	75	75 105	77 102 72 103 77	75 84 72 95 75	71 71 65 85 72	70 74 63 81 71	71 88 63 87 72	71 88 70 87 73	70 92 68 93 70	71 96 70 94 73	74 100 75 96 75	76 100 76 98 74	77 103 76 99	75 99 74 96 76	75 95 69 95 77	72 95 69 93 70	78 96 69 94 75	78 98 71 98 73 95	74 99 72 96 74	98 75 96	71 91 69 95 70	72.8 °95.1 °70.0 94.8 72.1
Sumter   Maximum   Minimum   Minimum   Maximum   Maximum   Maximum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Minimum   Mini	89 67	69	68 89 66	69	68 91 71	95 71	98	98 71	100	98 72		78	99 78	86 75	86 64	76 66	84 71	78 72	90 68	98 78	95 75	96 76	76 96 76	95 76	94 73	70 93 71 	94 72	73	74 95 72	69	70	92.3 71.3
Yemnssee Maximum Minimum	91 67		92 65		92 74	95 70	100 73		98 72	101 74	99 75	100 74	98 77	96 74	87 71	84 70			93 70	94 70	95 74	97 78	98 76	96 75	97 72	93 70	95 73	91 72	96 72	97 72	69	94.4 71.7
Western Portion.	92		92	91	92	99		102	101				98	90	86	84	79	85	89	93	95	96 76	99	97 68	95 76	93 69	93 68	93 69	92 70		92 69	93. 9 71.6
Atken Minimum.  Anderson Maximum.  Minimum.  Maximum.  Maximum.	68 91 68 80	88 66 74	82	94 68 74	97 69 78	71 101 70 83	72 92	97 69 92	82	97	81	104 73 78	79 90 76 80	74 68	69 77 63 59	66 67 62 66	69 77 63 66	72	69 89 69 71	72 92 72 73	74 93 78 86 59	95 74 82 59	77 97 74 87 70	95 73 82 62	94 73 76	93 72 82	94 73 77 68	98	96 73 77	95	69 68 68	92.6 70.8 77.8 61.6
Calbour Falls Minimum Maximum Minimum	61 95 68	94 67	95 64	98 64	101 66	59 103 69 93	105 73	102 73	106	104 72	101	108 72	98 73	99 76	56 69 69	55 68 62 75	76	87	55 92 69 90	60 96 71 98	9.0	98 74 99	102 74 92	102 74 94	97 74	97 71 91	100	96	95 71 100	94 72 96	91 69	95.6 70.2 91.8
Camden M. Maximum. Cherokee (near) (Minimum. Minimum. Minimum.	67	67 89	66 89 58	67 88	70 93	71 94	70 98	73 99	7:2	79 97	71 98	73 102	88 74 100 71	70 90 71	78 65 85 61	68 66 62	64	68 85	69 88 67	93 72 94 67	72 97 74 95 70	75 96 71	76 96 72	75 90 68			94 72 91 71	72 96 73	73 96	74 90	89 70 90 64	70.7 91.9 66.5
Chester   Maximum	92					98	100								75		79  82		95 	96	98 	99	100	98	94	96	96		99		94	95. 1
Clemson College   Maximum   Minimum   Minimum   Minimum   Maximum	64	64	60	66	96 68 92	99 74 98 72	72	66 100	72	101	68 98	104	68 96	71 86	63 73	64 71	60 79	65 83	72 90	65 94	71 96 75	97 70 97 76	98 71 99	71 94	70 96	66	69 95	70 99	98	94	70 91 70	67.7 98.0
Due West Minimum	69 92 69	69 91 66 86	68 90 62 88	71 94 67 90	71 97 69 95	100 70 98	102 72 98	100 72 98	102 70 98	99 74 98	99 74 97	105 71 102	94 77 92	91 72 89	72 63 68	64:	65 76	85 69 85	69 88	72 91	95	96 74 95	70 98 74 97 72	72 94 73 90	94 72 93	60	78 96 72 92 73	94	95 71 96	94 71 90	89 69 90	92. 9 70. 0 91. 1
Greenwood Maximum    Maximum   Maximum   Maximum   Minfimum   Minfimum	. 90	92	68 91	69 94	72 97	98	101	103	103	103	99	100	106	95	91	67	66	76 65	87	90 70	92	75	·92	96 73	92 73	92	88 71 93	85	94	94	63 93 69	70.9 92.5 70.2
Heath Springs   Maximum	91	95 68	90	86	90	95	99	98	100	99	94	100	94	90	69	68	78	80 69	91 68	90	93	94	96	100	92	90 69	93 73	96 73	96 69	74 92 77	69 88 67	91, 2 70, 1
Hogback Monutain.   Maximum   Kershaw   Maximum   Maximum   Minimum	91	91			96		108	105	102	100		107	98						92 68	95 72			100 75		95 72	95 70					95 68	93. 9

Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 8-25 30 -900

Kershaw .... Maximum Minimum

Landrum ...... Minimum.

Laurens | Maximum | Minimum Spartanburg | Maximum | Minimum | Maximum | Minimum | Mi

Winthrop College ... | Maximum ..

SEP 29 1930

U. S. DEPARTMENT OF AGRICULTURE; WEATHER BUREAU. UNIVERSITY OF CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

OL. XXXIII. GOLUMBIA, S. C., AUGUST, 1930...

### GENERAL SUMMARY.

The month was low in the group of cool Augusts, with reord-breaking August minimum temperatures at many stations at the 23d. The rainfall averaged less than half the normal mount and was particularly deficient in the northwestern order counties.

Notwithstanding generally deficient rainfally especially in ome northwestern countles, all crops made favorable advance ntil the last week, when drought conditions prevailed. Cotton ade good growth and bloomed and fruited better than for me seasons, and was practically matured by end of the month, hen bolls were opening rapidly; the first bale was ginned at brhardt on the 4th, or 7 days earlier than normal. Sweet tato transplanting was retarded by unfavorable soil condions, but this work was practically finished during the first cek, when early tubers appeared. Corn maintained generally nod condition, except on uplands up-State and in some secons of the Piedmont; fodder pulling progressed throughout e month, and pea vine and native hay harvests were in proess at the close. Tobacco curing was completed during the st week. General field crops other than cotton maintained a owing condition similar to corn. Peaches, apples, pears, apes, melons, and all kinds of vegetables were marketed in ason. The soil was too dry at the close of the month for uch fall plowing.

### TEMPERATURE.

The monthly mem for the Section, determined from rests of 40 stations, was 77.5°, or 1.3° below normal. The thest temperature was 103° at Kershaw on the 6th and at city Hill off the 30th. The warm periods were from the 5th 10th and 29th to 31st. with daily mean temperatures range from 5° to 10° above normal. The lowest temperature was at Caesar's Head on the 23d. The cool periods were from 2 12th to 14th and 19th to 25th, with record-breaking low aperatures for Angust at many stations on the 23d, and mean aperatures ranging from 5° to 14° per day below normal.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 ular Weather Bureau stations in and surrounding the Section, was as follows: &a.m., 80%: noon, 51%: 8 p. m., 66%. e highest percentages occurred along the coast, and the lowest, the interior.

### PRECIPITATION.

The average for the Section, 52 stations reporting, was 2 inches, or 3.33 inches below normal. Precipitation octed in three poorly defined periods; followed by a rainless iced after the 23d. The total monthly rainfall was veryly distributed as to areas and amounts, with 5 to nearly 8 hes in a small area of the middle-northern coastal plain, ille elsewhere the measurements ranged downward from 5 hes to less than 1 inch. in sections of Anderson, Abbeville, enwood, McCormick, Edgefield, Saluda, western Newberry. I Sumter Counties. The greatest local monthly amount was

7.66 inches at Georgetown; Teast local monthly amount, 0.29 inch at Trenton. The greatest 24-hour amount at any station was 3.25 inches at Georgetown on the 22d. The average number of rainy days was 50% below normal.

Deaths by Lightning.—Mr. Estill Bennett, planter near Spartanburg, early night, 10th. Henry Scabrook, boy, of James Island, near Légare Creck while landing a rowboat, 11th. Mr. Louis Truluck, tobacco motor trucker, 1:30 p. m., 15th, at Harper's Filling Station, near Marion.

Damage by Hail, Lightning and Wind Squalls. - Heavy hail near Antreville, about 10:30 p. m., 1st, in a path about 2 miles wide and 16 miles long, and also two smaller storms near Calhoun Falls and Abbeville, damaged crops and other property about \$35,000 on about 3,000 acres of land. Crops were damaged by heavy hail near Woodruff during the early night of 1st to the extent of about \$4,000. On 2d, the chain gang buildings near Sumter were fired by lightning and damaged about \$2,000. On the 6th, a heavy wind squall from a thunderstorm caused property damage of about \$400 at Dacusville; on the same date, at Landrum, a barn was fired by lightning and burned. During the early night of the 8th, a wind squall wrecked a barn near Monetta, killing a mule and two cows. with loss of about \$1,000, and about the same time lightning killed 5 pigs about 10 miles east of Swansea, with loss of about About 9:30 p. m., 9th, near Chester, a large barn was struck by lightning and burned, with contents, including 5 mulles; damage, about \$4,000. During the early night of the 10th, the power house at Cowpens was struck by lightning, the resulting fire causing a loss of about \$15,000.

### WIND.

The prevailing wind was from the northeast. The average honrly velocity, determined from 9 anemometer records, was 5.5 miles. The highest velocity for any 5-minute period was 32 miles per hour from the northwest at Asheville, N. C.; on the 10th and at Savannah, Ga., on the 11th, and from the west at Greenville on the 5th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 298.3 hours, or 7.2% of the possible amount. The average number of clear days was 17; partly cloudy, 7, and cloudy, 7, as against normals of 13, 11, and 7 days, respectively.

### RIVER CONDITIONS.

Stages were generally below normal, especially in the Congarec at Columbia and at the higher up-State stations:

### MISCELLANEOUS DATA FOR AUGUST, 1980.

Stations.	Temperat degrees I	ure, ahr.	Preci tion incl		Wir 3-eup A		116	Mear elati midi	ve	sof pos-
Baromete	Mean. Highest.	Lowest.	Fotal.	Greatest	Average hourly velocity, miles.	Prevailing direction.	8.a. m.	Noon.	8 p. m.	Percentage sible sun
Asheville, N. C. 30, 05 Augusta, Ga 30, 01 Charleston, S. C. 30, 63 Columbia, S. C. 30, 63 Columbia, S. C. 30, 63 Columbia, S. C. 30, 63 Corectiville, S. C. 30, 63 Gavannah, Ga 30, 02 Wilmington, N. C. 30, 03 Menns and ex. /	70.4 94 79.4 98 79.6 94 76.7 100 78.0 97 77.5 96 77.0 98 79.8 97 76.7 95	49 58 62 53 55 53 54 60 	1. 78 3. 67 1. 75 3.41 1. 59 0. 78 2. 65 1. 95 1. 95	0.76 2.48 1.33 1.36 1.18 0.29 1.80 0.97 0:99	4.5 3.9 8.3 3.2 4.6 5.8 5.5 8.5	se. s. sw. ne. ne. sw. ne.	88 81 78 77 77 77 73 84 84	47 46 65 48 48 47 49 56	62 58 77 59 60 72 76	68 83 78 64 65 78 67 71 73
tremes 30.08	77.2 100	49	2, 13	2, 48	5.5	ne.	80	51	66	79

### Climatological Data for August 1920

Climatological Data for August, 1930.																				
	Temperature, in degrees Fahr. Precit												in inc	hes.	Num	be <b>r</b> c	of da	ıys.	direction und.	
Stations.	Counties.	Elevation, feet.	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direct	Observers.
Eastern Portion.																				
Beaufort (near)‡‡ Black ville	Beaufort Barnwell Charleston Chesterfield	21 296 48 144	49 46 59 48	*80.0 79.2 79.6 76.4	$ \begin{array}{c} -1.1 \\ -1.3 \\ -1.4 \\ -2.3 \end{array} $	*97 101 94 98	† 2 29 29 †29	*59 55 62 54	22 23 28 24	829 39 22 39	1. 20 1. 68 1. 75 2. 35	-5.46 -3.83 -4.78 -3.98	0.90 0.66 1.33 0.71	0 0 0 0	3 6 6	19 20 12	10 10 12	2 1 7	e. sw.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Burean. Roland D. Powe.
Conway Darlington Kilingham Ferguson <sup>‡‡</sup>	Horry Darlington Florence Orangeburg	25 175 106 68	40 35 39 44	77.8 76.6	-1.4 -2.3 -1.3	97 101 95	† 6 30 29	55 55 	24 †14 23	34 41  84	3. 23 3. 35 4. 20 7. 59	$ \begin{array}{r} -3.60 \\ -1.70 \\ -1.61 \\ +0.78 \end{array} $	1.27 1.15 1.29 2.60	0 0 0 0	8 8 6 6		0 6 	7 14 	sw.	Paul Quattlebann. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	FlorencedollamptonGeorgetownWilliamsburg	136 136 82 18 54	48 15 12 37 48	78. 4 79. 4 77. 2 77. 6	-1.8 -1.2 -3.1 -1.9	100 102 94 97	6 1 7 6	55 54 56 56	23 24 †23 †23	36  43 30 33	3. 77 3. 61 2. 34 7. 66 6. 68	$\begin{array}{c} -1.57 \\ -1.73 \\ -2.91 \\ +0.94 \\ +0.55 \end{array}$	1. 18 0. 84 2. 05 3. 25 2. 10	0 0 0 0	10 7 3 7 10	22 21 22 18 25	8 9 9 11 3	1 1 0 2 3	sw. s. e. e.	11. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Brooklyn Cooperage Co Mrs. Ellen Scott.
Marion Mars BluffOrangeburg Pinopolis Rimini	Marion	68 92 264 54 97	5 7 14 83 16	76.9 78.3	-1. 4	99	30	53 56	†23 †28	38 	3.79 5.97 3.05 2.48 1.39	-1.87 -4.44 -3.63	1. 45 2. 50 1. 63 1. 00 0.65	0 0 0 0	10 9 4 5 6	17 13 	14	6	s. ne.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station Miss E. P. Ravenel. Floyd C. Martin.
Society Hill Summerville Sumter Wedgefield Yennassee	Darlington Dorchester Sumter Sumter Hampton	192 75 169 249 24	39 32 6 40 41	<sup>b</sup> 76. 4 79. 0 77. 0 	-2.2 -0.5 	<sup>b</sup> 103 99 99 99	30 30 30 30	*52 58 53 56	14 †28 †28 †28	86 41 35	2. 19 2. 15 0. 93	-3.53 -4.95 -4.98	0.80 0.71 0.32	0 0 0 	8 5 6 2	26 10 15 	4 8 16	1 13 0  9	w. ne. se.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extremes	· • • • • •		78.0	-1.5	103	30	52	14	44	3.30	-3.00	3.25	0	6	19	8	4	sw.	
Western Portion.																				
Aiken Anderson Blairs Cesars Head‡‡ Calhonn Falls Canden		527 764 293 3118 508 222	68 37 25 6 31 80	78. 4 77. 8 74. 9 78. 7 76.6	-0.5 -3.6 	99 97 89 100 96	30 † 6 † 8 †29 30	55 53 46 55 56	23 23 23 †23 †22 †23	33 35 26 38 35	1.17 0.61 1.99 1.46 1.04 1.48	-4.10 -4.29 -3.12 -3.52 -3.87	0.73 0.40 1.45 1.00 0.72 0.48	0 0 0 0 0	2 2 2	22 23  9 19	7 4 17 8	2 4  5 4	ne. w.	Frank B. McCoy. 11. H. Russell. Sarah L. Owens. Caesar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba Chappells Cherokee (near) Clester Clenson College Columbia	Ocoure	562 402 758 487 850 351	24 25 2 8 8 8 44	*74.7 78.6 78.0	+1.3 -1.6	98 98 97	7 † 5 6	*51 56 55	23 26 23	*41 36 30	2.87 0.64 0.80 1.31 1.59	-2.03 -3.49 -3.69 -3.88	1.03 0.20 0.29 0.58 1.18	0000		23 7 13	4 19 14	4 5 4	se. W.	James C. Faris. William Spearman. Spartanburg Water Work J. C. Cornwell. Prof. F. H. H. Cathonn. U. S. Weather Burean.
Crescent. Due West Edgeffeld Gaston Shoals 11. Greenville.	Spartanburg Abbeville	630 711 680 1039	4 16 16 27 46	77. 5	-1.1 +1.2	96	31 5	58	23	37	2. 02 0. 78 3. 16 2. 04 2. 65	-3.25 -0.34 -3.27 -2.85	1. 45 0. 29 1. 79 0. 79 1. 80	0000	5 7	11	16	::::		Broad River Power Co. U. S. W. B. Aerological S Agent C. and W. C. Ry. Southern Public Utilitie U. S. Weather Burcan.
Greenwood Heath Springs Kershaw Landrum Laurens	Lancaster	500 1063	14	77.8 °76.0 77.7 76.4 *78.0	$ \begin{array}{r} -1.5 \\ -2.5 \\ -0.9 \\ 0.0 \\ +0.2 \end{array} $	98 *98 103 101 *99	† 8 30 6 5 31	51 50 51 50 *52	23 23 23 23 23	35 °36 40 36 *40	0. 95 4. 01 2. 38 2. 79 1. 04	-4.05 -1.43 -1.69 -1.85 -3.42	1.85 1.48 1.13	0	8	11	11 7 8 15	1	w.	M. M. Calhoun, J. Marvin Bowers, John W. Hamel, R. Hartwell Wilds, D.D.S L. G. Roff.
Little Monntain. Newberry Pelzer Saluda †† Santuck	Salnda	850	26 28	78.0 78.1 77.7 *76.8	-1.2 -1.5 -1.6 -1.6	101 101 102 *99	† 6 30  † 7	50 51  £0 *48	23 28  28 22		2.53 2.50 1.80 0.86 2.66	-2.44 -2.55 -2.55 -4.10 -2.95	1.60 0.90 0.60 0.36 0.99	1 9	6 3 6	24 22	7 11  7 8	0		Miss Alberta Sease. John H. Baxter. Joshua Y. Jones. B. B. Blease. E. W. Jeter.
Spartanburg. Trenton. Walhalla Winusboro. Winthrop College !!	Spartanburg Edgefield Oconec	545	37 30 36	74.2 78.5 75.9 77.6 *76.7	-3.6 -0.9 -1.6 -0.6 -1.6	97 101 101 101 *101	5 †29 † 4 † 6 7	49 53 49 51 *51	23 23 †22 24 23	34 42 36 *39	1. 52 0. 29 1. 11 2. 31 1. 55	-3.80 -5.21 -4.71 -2.77 -3.78	0.22 0.65 0.81 0.48		3 6 8 5	15 12 11	18 14 18 19	2 2 1 0	ne. sw.	M. H. Daniel. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson W. T. Clawsou.
Division means and		1		77.1	-1.2 -1.3	103 103	6 † 6	46 46	1	1	1.77	-3.63 -3.33			1	1	11	1		
Section means and	extremes			17.5	1.3	100			"	1						1	1			

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, \*, \*), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. 7 also on other dates. If Received too late to be included in means are compared to the property of th

### ERRATA.

June, 1930.—Santuck, greatest 24-hour precipitation, page 22, should be 1.25; on 30th, page 23, precipitation should be 1.25.

1924.—Ferguson, August, total precipitation, pages 32 and 33, should be 3.85; on 13th, page 33, precipitation should be 0.21; annual, total precipitation, pages 52 and 53, should be 65.71; total August precipitation, page 53, should be 3.85.

1927.—Beaufort (near).—Annual, pages 50 and 51, total precipitation should be 41.27; total December precipitation, page 51, should be 3.73.

### Daily Precipitation for August, 1930.

Stations	Drainage.															Duy	of m	onti	۱.														
Controlla.	busins.	1	2	s	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	80	31	Total.
Eastern Portion. infort(near). ckville      irleston *** riw	Coast	. 52	T. 66	Б Т.		4				. 50							. 90 T.		. 10 T.	Ť.		T.	Ť.	Ť.			1						1.20 1.68 1.75
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nghun guson    rence 1	Lynches Sautee Pee Dee	2.60							1.1	6 1 3 .29		. 10				. 57	2.30		T.							::::							3.35 4.20 7.59
rence 2	Savannah	2.00	. 21													T.			. 67	T. 84	. 05	• • • •	. 75	. 14									3. 77 3. 61 2. 34
gstree      lon  s Bluff	Pee Dee,	. 16			05	T.		.05	1.3	3 . 06		. 08	.08			.02 1.00	2.00 1.32	.27	48	1.08 2.10 .15 2.50		.05	3. 25 1.55 .28	.03		::::			:::		::::		7. 66 6. 68 3. 79 5. 97
ngeburg opolis dul      ety	Santee				. 50			. 48		28						io	.50		1.00	.28													3. 05 2. 48
iter	Pen Dee. Ashley. Watereedo	. 09							. 11			. 09				T.	. 13		. 17	. 32	. 10		. 11	. 07	::::	::::							1.39 2.19 2.15 0.93
mssee     Western Portion. m	Ashepoo	1. 29	. 01					••••	Т	19	• • • •		••••	••••			• • • • •	••••					• • • •		••••				••••	• • • •		::::	1.30
rs      	Savannah Brond Saluda Savannah Wateree		.72																. 46	1. 40			 1.00										0.61 1.99 1.46 1.04 1.48
wbn      ppeils      okee (near) ter	Cainwba Suluda Broud do	i †	∵ii					.25	::::	1.03	т.	.14			 T				. 77	. 19			. 49										2.87 0.64 0.80
imbia ***	Savannah Conguree Enoree	т.	.34				T.	. 05	. 07	.01	. 10									. 05		. 58	.02	. 02									1.31 1.59 2.62
West*** dield	Savannah Savannah Broad Saluda	1.79				T.	07	.02				.05		.27				. 07		.10		. 26	. 02 . 35 . 79										0.78 3.16 2,04
h Springs	Wnteree		. 14				1.06	.07	.95	.06	i. 85	. 04				.03		1.		. 50			. 28 .										2. 65 0. 95 4. 01
lrum ens 9 Monntnin perry		.08	. 36				.04 T	1.13		. 02					T.	. 03	. 41		. 28 .		:::	. 15	.22 .	:									2.38 2.79 1.04 2.53
ta	do	. 60	.06					Ť.	. 28		т.	т.				T 20	.08	40	. 59 .	.20		. 90	. 02 . 40 . 36	Ť									2,50 1,80 0,86
anburg	do		. 05				. 05	.05		.08 T		T	. 65			T			. 99 . T. . 30	.02	. 03	T. .65	.03					:: :	:::::	:::::			2.66 1.52 0.29 1.11
hrop College	Catawba											. 48			. 09 .			. 10	.42 .				. 46 .						:::				2.31 1.55

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of servation. ||| Precipitation measured in the morning; amount their recorded is for the preceding 24 hours. \*\* Regular Weather Bureau station; precipitation is for the hour period, midnight to midnight. \* Precipitation included in the next following measurement. Is parate dates of fulls not recorded. T. Trace, or less than 0.01 inch.

## COMPARATIVE DATA FOR AUGUST.

	Те	mperatu	ire.	Precip	itation.		e num days.	ber of	direc-		Te	mperati	ire.	Precip	itation.	Averng	e num days.	ber of	ing irec-
Cent.	Меап.	Highest	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di
	77. 8 77. 8 74. 1 77. 1 78. 9 77. 5 77. 5 77. 5 78. 4 80. 4 78. 6 80. 6 78. 6 80. 6 77. 9 80. 6 79. 4 78. 6 79. 4 78. 6	101 102 97 96 98 98 97 102 101 105 102 103 106 97 104 105 102 107 101 100 101	49 50 45 51 55 55 55 55 55 57 57 57 57 60 57 60 54 46 60 54 49 53	6. 54 4. 53 6. 37 4. 25 8. 79 4. 42 12. 45 7. 28 7. 95 4. 14 5. 16 9. 81 6. 26 2. 13 9. 81 5. 07 7. 15 6. 62 5. 41 9. 81 8. 47 8. 47 8. 48 8. 47 8. 48 8. 47 8. 48 8. 48	11 10 12 9 		9 13 14 12 9 11 11 11 10 9 8 8 17 13 11		SW. Se. S. SW. SW. NO. SW. SW. SW. SW. SW. SW. SW. SW. SW. SW	1910. 1911. 1912. 1913. 1914. 1915. 1916. 1916. 1919. 1919. 1920. 1921. 1922. 1924. 1924. 1925. 1926. 1927. 1928. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1930. 1930. Period.	79. 0 80. 0 79. 2 78. 9 79. 9 78. 8 79. 6 78. 5 80. 2 76. 4 79. 3 80. 4 78. 0 76. 1 79. 4 78. 5	101 104 104 104 101 102 100 102 106 103 100 102 98 101 105 109 109 99 98 101 103	60 51 54 52 56 52 58 49 52 53 56 66 66 69 49 49 53 53 54 59 59 59	6.00 6.05 3.69 3.76 5.88 7.62 3.27 3.23 4.45 5.08 4.147 7.44 2.86 3.46 4.34 10.22 3.18	10 12 9 9 13 14 8 8 8 7 9 14 10 11 12 6 4 4 7 7 9	11 10 16 15 9 11 16 15 20 14 8 14 12 11 18 8 21 11 18 21 17	12 15 8 9 15 11 10 10 10 17 11 12 10 8 11 9 7 10 10 10 10 10 10 10 10 10 10 10 10 10	8 6 6 7 7 7 7 9 9 5 6 6 4 4 6 6 11 7 11 9 9 4 4 3 3 4 9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ne. sw. sw. sw. sw. sw. sw. sw. sw. sw. sw

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Blackville ) Maximum	70	88 65	69	66	94 72 91 76	78	94 74 94	72	75 88 69	74	78		65	65	71	69	71	72	70	68	64	60	55	59	62 90 59	611	68 91 62	65	62	100	66	
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Cherawyy (Minimum,	68 86 67	69	67	67	96 71 95 70	75	72 88	··70	72 97 72	75 95	··69	60	62	54	67 86	67 91	74 96 71 87 77 88 70 91	73 94	66 86	60	60	80 65 75 61 80	55 81	54	57	59	84 67 88 60 90	60 91	59 96	60 96	67 95 68	7 at 64
Conway Y Maximum Minimum Minimum	67 84 68	67 90	89 69 85	92 67 87 69 92 65	70 92 71	95	94 72 88 73 98	92 70 92 72 92 71	92	76 91	78 86 74 82 69 87 75 83	84 73 83 60 87 63 85	65 88 61	88 56 89 55	70°	66 89 65	70 90 70	74 91 78	70 84	68 79 71 82 60 79 62 84 60	83 66 82 60 84 62 83 60	63 77 61	56 77	55 84 55	86 67 88 57 90 57 88 57	63 88 58	60 68 59	62 92	94 72 98 59 96 62 97 60	66 90 75 98 60 96 65 101	68 99 60	66
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Garnett     Maximum	68 98 68 84 69	66 85	68	66 85	70 91 69 95 71 95 71	75 98 72 93 74 97 75 96 74	71 94	75 93	; 72 93	75 93	70	. 70 84	66 81	65 83 58 88 57 88 62	67 85	86	68 88	73	67 92	68 86	. 82	58 78	56 78	. 54 85	56 84	74	.58 84	60 88	67 94	59 94	60 90	. 65
Kingstree Maximum Minimum	69 88	68 90	68 89	86	95	97	75	74 91	71 95	. 71	75 85	65 86	68 86	- 58 - 88	71 88	67 91	91	93	73 87	65 81	63 83	62 79	56 78	56 85	60 87	62 87	61 86	90	65 95	69 95	67 94	88
Marion Minimum	88 69 88 66	89	68 69 69 88	90	95	96	75 94 72	92	71 95 72	96	88	88	64 88 62	88	84	67 91 63	92	75 91 72	85	81	83	76	79 58	85 52	84 60 87 58 88 55	87	88	91	97	99	96 62	89
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Maximum	67 86	67 89	66 85 70 89	64 86 69 89 66	96	72 96	71 89	69 93	71 94	· 94	69 89	58 85	61 87	52 88	55 89	63 93	93	72 95 74 93 74	64 95	60 90 70		66 81 66	53 80	. 53 86	54 87	57	59 89	58 93	58 97	59 99 63 99 61	63 95	*62 -90
Sumter   Minimum   Maximum   Minimum   Minimum	71 84	70 87	70 89	69 89	93	73 95	71 94	73 92	75	92	88	86	87 66 88 60	93	72 90 72	70 91	70 92	93	84	70 81 62	86 67 81 62	66) 80 61	58 79	60 85 53	58 89	88	59t	63 92	96	. 99	. 64 96 61	. 67
Wasimum	69	68	67		72		73		71							66				62							28					
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Minimum	68 89	.68	- 67 88	. 68 91	70 96	97	97	. 7.3 96	91 .70 96	93 75 94	74 89 73	.66 84	- 65 86	87 65 80	70 92	69 95	70 92	71 91	70 82	67 84 - 66	64 80	58 72	55 81	62 87	61 86	63	65 87	- 70 93	66 97	67 97	68	67
Anderson Minimum Maximum Maximum Minimum	67 66	68 89 63 75 59 92 64 88 71	67 88 68 71 59 87 65 89	72	96 78 86	74	2 81 68	92 -73 -96 -72 -89 -66 -98 -72 -93 -71 -93 -67	. 72 . 83 . 67	. 74	.73 68	. 67 . 70	·· 63	61	70 92 -70 71 -60 92 67 -88 71 89	95 70 79 61 96 72 89 68	92 70 88 62 96 72 87 71 91 67	94 71 91 72 76 65 78 86 84	89 70 82 67 60 86 87 67 87 87	68	80 59 58 57 86 62 79 58 80 58	72 54 56	81 58 64	77 62 87 58 67 47 88 - 56 - 80 - 86	86 60 67	87 61 67 56 88 59 61 86 55	87 62 67 56 92 66	90 - 70 - 93 - 62 - 77 - 57 - 95 - 60 - 94 - 62 - 92	66 97 62 82 59 100 62 96 61 96 55	67 97 65 75 64 100	68 96 67 70 65 98 65 87 63 96	89 67 89 66 90 50 91 65 87 65
Calbour Falls M. Maximum Minimum Minimum	.64 90	59 92	59 87	. 62 92	. 63	98	. 68	98	. 67	. 69	. 64	. 54 87 68 - 86 - 70 . 82	89 89	57 10 84 65	92	96	96	795	181	68 56 88 66	86	75 55	86	88	64 88	-56 88	56 92	95	100	100	98	91
Camden M	69 89	64 88	65 89	92 67 83 65 91	96 68 90	. 95	. 91	93	98 72 93	91	. 85	- 86 70	69 64	189	- 88	- 89	87	86	· 87	80 64 82	79	74 58	71 56	. 80 56	85 58	89	89 63 86	94	96 61	95	87 63	87
Cherokee (near)   Maximum	.64 90 69 89 70 86 59	. 86	66 89 64	91	68 . 97 67	. 97	98 72 91 70 98 69	93	71 92 (1-70	12 96 69	68 - 64 - 90 - 72 - 85 - 72 - 84 - 69	. 82	84	71 -81 -62	89 64	· 87	91	84 70	81 64	82 61	80 58	55 75 56 74 58 71 55	46 86 55 71 56 85 - 51	·86	57 85 58 86 55	86 55	86	92	96 55	62 95 61 96 57	96 59	88
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Due West. Minimum. Maximum. Minimum.	87	72 87	- 86 - 86	89	72 95	95	96	95 50	. 93	91	86	83	85	65 83 64	90	95	94	92	80	84 65	80	73	80	85 61 84 59	84	88	88	92	96 50	96	× 96	81
Greenville Maximum	87 65 86 67	63 87	68 189 70	- 68 91 70	70 98 72	97	74 197 72	72 95 72 94 71	72 - 93 74 - 92 73	90	· 84	68 83 68 78 65	63 84 64	67	90	92	90	69 92 71 85 67	68 - 79 68	81 66	58 74 56	71 55	79 54	84 61	85 65	87	87 65 88 63 85 64	91 64 92 64 90 66	94 68	94 69	68 93 70	86 67 81 59 87 67
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Greenwood Maximum Minimum Maximum Maximum Maximum Maximum Maximum Minimum C.	69	62 95	87 64 86 87	68 93 65	70	90 72 96	95 73		74	97 75 97 74 94 474 95	72	92 67 82	89 59 92 1 59 87	63 81	66	72 85	72 91	74°	93 67 83 62 86 64	61 82	59 87	86 56 71 60 81	51 80	53 83	58 86	61 87	92 59 85 59 91 59	60 90	94 63 96 64 100	98 66 98 67 100	67 95	68 87
Kershaw Minimum Minimu	67 86	91	67 90	0 65 98	101	103	68 101	± 169 98	94	-74 94	67 85	- 84 - 60	P* 050	. 68 86	91	92	71 95	- 90	"62 - 86	86	58 85	81	50 82	58 89	60 92	60 93	59 91	94	100	100	93	64 91
	85 67 86 69 90 62	91 62 95 95 91 68 91 59	65 92 63	98 65 96 72	70 101	70 99 73	101 71 100	98 69 93	94 -71 93	95	90 72 80 67 85 67 87 72	5 60 82 67	86 56		86 66 90 67 91 68 90 63	92 72 85 65 92 67 87	94 72 91 71 95 67 88	94 74 85 72 90 72 83 67	81 66	84 61 82 60 86 59 82 63	89 59 87 58 85 59 79 59	71 54	76 51 80 50 82 51 81 50	81 53 83 58 89 55 83 55	88 58 86 60 92 57 87	88 61 87 60 93 60 87 62	56 57	91 60 90 60 94 60 91 68	60 96 62	64 97 61	97 67 95 64 93 64 95 61	90 68 87 64 91 68 88
( Maytum	****			. 72	69		. 68	69 97	70		1		100		1	95		93			1					18	89.					
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Martinum	90 -63 90	60	66 88	69	.71 .97	76 99	170 97	72 98 73 96	76	74	74	64 86	59 89	67 89	74 92	92	76 95	72 96 74 93 78 96	70 83	60 85	83	55 74	50 82	. 55 87	55 88	58 91	61 88 65 90 61	60	55 99	57 101	62 100	6F 90
Maximum	168	64	90 65 88 67 91 65	.67 90	69 99 71 97 69 94 65	73 98	97 74 102	73 98 74 99	- 77	75 86	70 94	67 89	-60 90	-64 88	69 90	-71 95	94	·73	67 95	62 82	88	-58 86	51 78	5.6 84	57 90	90 58 91 62 90 55	94	59 91	97	100	65 98	6F 92
Saluda Minimum Sautuck Maximum Minimum Minimum	69 88	65	65 90	94 69 92 67 90 65 91	97	98 73 101 76 99 73 98 71 98 73	99	99	76 -92 76 88 77 99 75 92	74 91 74 88 75 86 -75 93	88 69 85 74 87 70 94 72 89	69 85 61	87 59 59 59 60 90 58 87 55	59 85	89 69 94 74 92 69 90 61 92 70	-71 95 71 92 68	75 94 72 96 71	98	66 84 66	85 63 60 85 62 82 61 82 56	84 59 84 60 83 60 88 55 75	75 57 57 55 74 58 86 86 80 48	81 52 82 50 82 51 78 50 86 52	87 54 87 55 87 66 84 51 87	52 88 60		94 58 92 60	, 94 59 94 60 94 59 91 57 92 58	98 58 96 55 99 67 67 57 98	100 58 98 57	99 67 97 62 100 65 98 58 99 61	*90 65 90 66 90 67 92 58 *90 *65
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Spartnuburg   Maximum   Minimum   Maximum	86, 63 3 88	88 68 80	60 87 87	88 61 92 67 93 65	97 66 96	96 69 100	. 98 68 94 75	69 97	71 74 74 96 69	90 72 91	. 85 . 71 . 87	. 80 . 59 . 87 . 69 . 84 . 59 . 88 . 64 . 93 . 64	83 55 90 62 87 59 87 61 90 61	78 61 90	90 66 89 69 91 67 92 69	84 68 96 70 95 67 92 69 87	63	72 94	81 80 68 83 66 88	82 61 83 64 85 65 66 80 82	75 60 83 62 78 58 82 60 83 58	71 54 76 57 73 49 81 60 70	49		54 88	87 55 91 61 88 56 90	58 89 62	90 58 94 64 92 57 89 62 82	86 56 101	96 58 101 70 95 58 101	60	86 67 90 66 90 61 88 88 86
Maximum	, 68 90	65	e 67	67	101	72 101	75	74	774	-71 94	. 71 . 69	69	62	90 68 82	69	70	63 94 71 95	72	68 83	64 85	62 78	57 73	49 79 53 81 49 67 50	61	54 88 63 87 54	61 88	8R	64 92	64	70 95	60 101 67 95 61 99 69	66 90
wamana Minimum	63 88	88 58 90	- 63 : 89	65 85	65	101	68 97 62	65 96	69	71 94 70 92 74 96	· 69	-59	59 87	66 86	92	67 92	70 96 72	69 91	66 83	65 86	58 82	49 81	49 67	58 87 51	54 88	56 90	53 89	57 89	64 98 56 99 64	101	61 99	61 83
Winnshoro M. Maximum.  Winthrop College Minimum.	68	68	.67	85 66 98 67	71 98	74	701	94 65 96 72 97 70	86 69	74	- 83 70 85 71	64	61 90	61 86	85	69 87	72 94 70	72 94 72 90 69 91 78 89 70	65 85 61	60 82	60 83	70	50 79 51	. 61 . 86 . 55	60 87 57	64 88 63	62 88 59	62 82	99	100		*88
Minimpm	66	66	1 67	67	69	69.	71	70	71	70	. 71	64	61	56	60	67	70	70	61	60	58	57	51	55	57	68	59	60	61-	68		
	- 6	j	::			1		1			1		1	1 '	:	ŀ	1				i			1,	1				1, ;	-		

Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

M Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 9-25-36-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

OL. XXXIII. COLUMBIA, S. C., SEPTEMBER, 1930.

### GENERAL SUMMARY.

September was unusually warm, 20 days having mean mewhat above normal, but the rainfall was decidedly heavy the lower coastal counties and comparatively light in the iedmont.

nerous showers about the middle of the month, although prepitation was considerably less than normal in the higher evations and over-abundant on the lower coastal plain. Il white potatoes and other ground crops developed very on the 16th. ell, on the whole. Corn fodder pulling and the forage harsts proceeded with only temporary interruption. Tobacco, uck, and the various tree and vine fruits were marketed in g began about the middle of the month.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 gular Weather Burean stations in and surrounding the Secon, was 30.04 inches. The highest pressure was 30.35 inches at sheville, N. C., on the 1st, and in the Section proper, 30.33 ches at Due West on the same date; the lowest pressure was on proper, 29.85 inches at Greenville on the 14th.

### TEMPERATURE.

The monthly mean for the Section, 42 stations reporting, as 77.3°, or 2.7° above the normal. The highest temperature as 102° at Kershaw and Trenton on the 3d. There were three olonged warm periods, with daily average temperatures nging from 5° to 12° above normal. The lowest temperature ns 49° at Cherokee (near) on the 28th, at Walhalla on the th and 30th, and at Santuck and Spartanburg on the 30th. ne cool periods were practically negligible, the daily mean inperatures being close to normal.

### HUMIDITY.

The mean relative lumidity, determined from reports of 9 gular Weather Bureau stations in and surrounding the Seem, was as follows: 8 a.m., 88%; uoon, 61%; 8 p. m., 76%. he highest percentages occurred along the coast, and the lowest, er the northwestern counties.

### PRECIPITATION.

The average for the Section, 53 stations reporting, was 4.58 inches, or 0.39 inch above the normal. Precipitation was very badly distributed as to areas and amounts; the measurements ranged near or below 2 inches in a considerable area of the northwestern counties, while in an extensive area of the coastal plain and in small sections of Greenwood, Newberry, and Lexington Counties, the total amounts ranged from 6 to nearly 14 inches. The bulk of the month's rainfall occurred mperatures notably above normal. Precipitation averaged near the middle of the month, but light showers were rather frequent during the earlier and latter parts. The greatest local monthly amount was 13.60 inches at Beaufort (near); least local monthly amount, 1.33 inches at Clemson College. greatest 24-hour rainfall was 4.35 inches at Beaufort (near) on The general crop situation improved materially incident to the 17th. The average number of rainy days was 43% above

### WIND.

The prevailing wind was from the south. The average tton opened rapidly under the prevailing high temperatures, hourly velocity, determined from 9 anemometer records. Was d picking and ginning were active. Much early corn suffered 5.2 miles. The highest velocity for any 5-minute period was 31 om lack of rain in the up-country, especially in the uplands, miles per hour from the west at Savannah, Ga., on the 26th, d other crops showed similar condition. Sweet potatoes and and in the Section proper, 25 miles per hour from the southwest at Columbia on the 15th and from the west at Greenville

### SUNSHINE AND CLOUDINESS.

The average monthly simshine, determined from 9 autoason. Some progress was made in fall plowing, and oat sow-matie records, was 217.6 hours, or 60% of the possible amount. The average number of clear days was 11; partly cloudy, 16, and cloudy, 9, as against normals of 15, 8, and 7 days, respectively.

### RIVER CONDITIONS.

The rivers of the Section were abnormally low, with few exceptions, throughout the month.

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 3, 4; Columbia, 5. Solar: Char-.80 inches at Asheville, N. C., on the 15th, and in the Sec-leston, 4, 20, 29; Columbia, 23, 27, 28; Due West, 23, 27, 28. Fog, dense.—Blackville, 5: Columbia, 1; Due West, 6, 13. 19; Georgetown, 3, 7; Mars Bluff, 1, 2, 3, 4, 7, 19, 20, 22, 23; Snuter, 1, 2; Trenton, 1, 2, 7, 18; Walhalla, 17; Winnsboro, 2.

August, 1930.—Camden, date of highest temperature, page 30, should be 29th; Winthrop College, number of clear days, page 30, should be 12.

### MISCELLANEOUS DATA FOR SEPTEMBER, 1930.

	ees.	Tem) degre	erati		tio	pita- u, hes.	Win 3-eup A	nem.	re	dean lativ midi	re i	sure of pos-
Stations.	Barometer level,	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	S p. m.	Percentage sible suns
Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex-l	30, 05 30, 02 30, 04 30, 04 30, 04 30, 07 30, 04 30, 02 30, 05	69. 0 79. 0 80. 2 76. 0 78. 0 76. 0 75. 3 80. 0 79. 0	88 96 92 97 96 96 95 94 91	45 58 66 50 58 56 58 64 63	4. 23 5. 85 3. 22 2. 90 3. 78 2. 15 2. 74 9. 53 5. 82	1. 95 2 88 1. 72 1. 01 1. 56 1. 13 1. 34 2. 53 1. 99	4 4 3.6 7.4 3.1 4.5 5.8 5.9 7.7 4.8	se. s. sw. sw. s. ne. s. sw.	92 90 85 86 88 86 85 90 88	60 57 68 59 60 60 61 64 63	76 74 83 70 75 72 78 84	. 45 64 67 56 46 64 55 71 68
tremes	30.04	76.9	97	45	4. 47	2.88	5 2	SW.	88	. 61	76	60

### Climatological Data for September, 1930.

					iimat	01081	cai L	ata	101 8	epte	mber,	1930.								
			ord.	Т	emper	ature, i	n deg	rees F	anr.		Precip	itation,	in inc	hes.	Num	ber o	of da	ys.	direction	
Stations.	Counties.	on, feet.	Length of rec	Меал.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest dally range.	Total.	Departure from the normal.	Greatest in 24 hours.	meli	(0.01 in. or more)	Clear.	Parriy cloudy.	Cloudy.	Prevailing direction	Observers.
Eastern Partion,																		1	}	
Beaufort (near) †	Charleston	21 296 48 141	49 46 59 48	78. 7 78. 8 80. 2 77. 2	+0.9 +3.0 +8.6 +3.6	93 97 92 99	† 4 3 14 3	62 58 66 55	29 30 30 †29	24 29 17 31	13. 60 5. 15 3. 22 5. 77	+8.80 +0.97 -1.31 +2.21	4. 35 1. 55 1. 72 1. 38	0 0 0	14 9 14 9	16 5 6	5 22 13		s. sw.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway Darlington Ellinghum Ferguson&	Darlington	25 175 106 63	40 35 39 44	79. 2 77. 2  78. 6	+4.4 +2.6 +4.2	96 99 94	3 3 † 3	58 54 58	29 29 †29	27 31 26	6.72 6.07 4.12 5.45	+1.84 +2.07 -0.04 +1.57	1.46 2.43 1.24 1.32	0 0 0	14 7 10 12	16 12	0 8		SW	Paul Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1, Florence 2	Georgetown	136 136 82 18 53	48 15 12 37 48	79. 6 679: 4 77. 8 78. 8	+6.4 +2.0 +1.6 +4.1	98 <sup>6</sup> 98 92 95	† 3 14 3	56 61 60 58	29 29 29 29	30 24 25	5.15 4.35 10.56 6.70 4.89	+1.08 $+0.28$ $+6.73$ $+2.29$ $+0.72$	1.90 1.80 2.20 1.83 0.93	0 0 0 0	10 6 13 13 11	16 13 10 12 20	8 15 14 14 3	6 2 6 4 7	SW. W. W. S.	11. K. Gilbert. Pee Dee Experiment Sta. Manier B. Robert. Brooklyn Cooperage Co Mrs. Ellen Scott.
Marion Mars Bluff Orangeburg Pinopolis Gimini	Marion Florence	68 92 264 54 97	5 7 14 83 16	78. 6 79. 2 79. 0	+3.7 +4.7	97 95 9t	3 3	52 59 67	29 30 30	33 25	3.86 2.70 5.97 8.05 5.09	+2.30 +3.39 +1.31	1. 43 1. 20 2. 96 2. 00 1. 10	0 0 0 0	9 9 11 14 7	8  5 10	17 17 6		s. s.	Alden F. Schell, Rosa R. Davis. U.S. Fisheries Station Miss E. P. Ravenel. Floyd C. Martin.
Society Hill Summerville Sumter Wedgelield Yennesee	Durlington	192 75 169 249 24	39 32 6 40 41	*77 9 79.6 78.6 79.2	+4.3 +4.3 +5.1	*101 98 96	† 6 3 3	*52 63 56	29 †29 †29	*35 32 29 	7, 33 8 53 5, 36 , 8, 83	+2.18 +3.83 +4.64	3.70 2.12 1.44 2.40	0 0 0 0	9 17 10	19 12 16	8 10 7 	3 8 7	s. s. s.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extremes			78.8	+4.4	101	3	52	29	35	6. 25	+2.14	4.35	0	11	12	10	8	s.	
Western Parlinn,		527	68	77. 6	+3.0	94	3	60	†28	25	5.30	+1.94	1, 22	0	13	19	4	7	e.	Frank B. McCoy.
Aiken Anderson Blairs Cesars Hend‡‡. Cathonn Falls.: Camden	Fairfield	764 293 3118 508 222	87 25 6 31 80	76. 1 66. 0 77. 4 76. 7	+1.9	97 86 99 94	3 4 8 2	54 51 54 54	30 30 30 30 30	23 34 25	1.71 3.85 7.34 2.64 4.37	-1.42 +0.79 -1.10 +0.55	0.31	0 0 0	8 10 13 9 7	6 12	6 12	18 6	w. s.	11. II. Russell. Sarah L. Owens. Cresar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catuwba Chappedis. Cherokee (near). Chester Clemson College Columbia	York Newberry Spartanburg	562 402 758 487 850 351	24 25 2 8 38 44	74.8 77.0 78.0	+4.3 +3.5	97 97 96	† 3	49 50 58	28 30 30	40 31 26	4, 40 3, 66 1, 85 1, 33 3, 78	+0.85 +0.32 -2.77 +0.33	1.36 1.05 0.85 0.32 1.56	0 0	9 13 6  9	22	1  9 18	7 20 8	sw. w.	James C. Faris. William Spearman. Spartanburg Water Works J. C. Cornwell. Prof. F. H. H. Calhonu. U. S. Wenther Burenn.
Crescent. Due West Edgefield Gaston Shon's [] Greenville.	Chantaulung	630 711 680 1039	4 16 16 27 46	76.0	+2.3	96	3	56	30	29	2. 49 2. 15 4. 95 3. 18 2, 74	-1.30 +1.94 -0.22 -0.94	0.77	0 0 0 0	10 11 7 10 12	4	18	13	sw.	Broad River Power Co. U. S. W. B. Aerological Sta Agent C. and W. C. Ry. Southern Public Utilities. U. S. Weather Bureau.
Greenwood Heath Springs Kershaw Landrinn Laurens	Greenwood. Lancaster. Kershaw Spartanburg	671 568 500 1063	46 28 14 15 12	76.7 175.5 78.3 75.7 77.3	+3.4 +1.9 +4.1 +2.7 +3.5	96 f100 102 98 100	† 2 2 3 4 8	54 54 56 51 55	†28 30 †29 28 †28	32 f 38 83 84 83	6. 07 4. 23 4. 24 1. 51 1. 70	+2.64 +1.10 +2.18 -2.95 -1.57	1. 26 2. 63 1. 40 0. 63 0. 48	0 0 0 0	10 7 7 6 10	9 4 12 16	5 5 11 9	16 21 7 5	W. W. W. W. SW.	M. M. Calhonu. J. Marvin Bowers. John W. Hamet. R. Hartwell Wilds, D.D.S. L. G. Roff.
Little Mountuin Newborry Pelzer Salnda Sannek	. Newberry	711 502 850 536	37 26 26 28 37	77. 8 77. 4 77. 1 76. 5	+2.9 +2.1 +2.5 +3.4	100 99 100 100	8 3 4 3	53 53  52 49	30 28 30 30	34 33 37 36	6. 97 4. 88 1. 95 9. 11 2. 37	+3 84 +1.61 -1.66 +5.80 -0.85	0.64	0 0 0 0	11 13 10 10 9	13 6 19 14	10 14  8 10	7 10 3 6	s. w. sw.	Miss Alberta Sease, John H. Baxter, Joshna Y. Jones, B. B. Blease, E. W. Jeter,
Spurtauburg. Trenton Walhalia Winnsboro Winthrop College [].	Spartanburg Edgefield	875 620 1061 545	53 37 30 36 30	73. 7 78. 1 74. 4 77. 9 76. 6	+1.4 +2.8 +2.8 +4.2 +3.4	97 102 98 100 99	3 3 8 8 4	49 57 49 56 53	30	33 32 38 32 32 35	1, 72 4, 52 2, 09 4, 14 4, 09	-1.64 +1.22 +3.04 +0.58 +0.86	1.15 1.71 1.20	0 0 0 0	11 10 10	20 4 15 3 13	1	8 4	se. sw. sw.	M. H. Daniel. Mrs. S. E. Long. 11. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
Division means and	extremes			76. 2 77. 3	+3.0	102	3	49		40	3,72 4,58	-0.16 +0.39		0	1	11	10	l.	w.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\$\tilde{n}\_{0}\$, \$\tilde{n}\_{0}\$, appearing in the table indicate number of days missing; for example, \$\tilde{n}\_{0}\$ represents two days missing, etc. \$\tilde{n}\_{0}\$ for example, the device of the date to be included in means and summaries. \*\*Temperature data are from observed readings. If look of the day both; means are computed from observed readings. If look-office addresses of these stations are as follows: Of Gaston Shoak, Blacksburg; of Vindero College, tack-thill; of Ferguson, Eutawville; of Clears it flead, Greenville; of Beaufort (near), Burton. \$\frac{1}{2}\$ Observations taken from dry bulb thermometer at 7 a. m., 3 p.m. and 10 p. m. The Precipitation is less than 0.01 line of rain or melted show.

### Daily Precipitation for September, 1930.

	Dramage-					-									1	ay (	of m	onth															
Stations.	onstus.	1	2	8	4	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	28	24	25	26	2.	25	29	30	31	Tota
stern Portion, ort(near), ellie      stan ***, w	Coast Edisto Coast Pee Dee Waccannew	T.	T.		 	. 83 . 19 1. 17 . 14	1. 33 1. 40 . 08 . t0 . 03	T	7	. 05 . 33 . 27 . 93	.07 1.10 .10	1.00 1'. .01	Tr.	T'. T'. .07	3, 50 T.	. 32	.80 T. .19 .28	4. 35 .72 T. 1. 38 . 65	. 64 . 28 1. 51	. 10 . 05 . 48 . 11 . 20	. 66 T. . 68 . 09 I. 46	1. 55 T. . 97	Ť.	1. 10	T.	10 T.	Ť	.04	. 10  T.	.30	.01		13, 60 5, 15 3, 22 5, 77 6, 72
gton	Pee Dee Lynches Santee Pee Dee do Savananh	. 22	.11			1. 20 . 1t 	i. 82	.03	17	.09 1.24 .34 .42 2.15	1. 22 . 13 . 69 1. 14 . 55 T.	. 30 . 04 T.	. 09	.31		2, 15	.09	. 35 . 15 . 05 . 06 . 2. 20	T 04	.70 .60 .81 .34 .48 .38	T. . 51	2.43 1.10 .81 1.90 1.80 .85	. 81		. to	 7 .30		T. 1.19 .02 T.		Y	T		6,07 4,12 5,45 5,15 4,35 10,56
town ree   h 	Const Black Pee Dee. do Edista Cooper	. 05				.12	. 03 . 22 . 51 T.	Ť	.08	. 38 . 44 . 04 . 95	. 18	. 18	.70	. 68	. 25	. 15	. 94 . 05 . 05 . 08 . 25	. 53 . 93 . 35 . 17 . 64 2. 00	1. 83 . 03 . 11 T. . 21 1. 00	1. 19 . 30 . 92 . 26 . 10 1. 00	. 20 . 77 . 36 T	. 05 . 73 1. 43 1. 20 2. 96 . 05		T		. 15	.10	.35	.68	. 15 .	.07		6, 70 4, 89 3, 86 2, 70 5, 97 8, 05
Hill III rville III dela scelli steca Parting	Suntee Pee Dee. Ashtey Wateree do Ashepoo		.07	. 16	.04	3, 70	. 52 . 12 . 10 . 2. 40	. 16	T . 28	. 98	. 04	. 98	. 49	. 05	. 62	. 85	. 85	. 96 . 62 1. 05 . 68	. 46 . 39 2 . 84 . 44 1	.58 .13 2.12 .03	. 10 . 20 . 42 . 64	1.40 1.20 .98	.30				.15	.05			. ep		5. 09 7. 84 8. 53 5. 36
on    	Edisto Savanonh Broad Saluda Savanonh Wuteree					. 02	. 10				.03							. 75		. 33	. 02	. 07			().								5.30 1.71 3.85 7.34 2.64 4.87
n      rils      ee (near) n College bia ***	Catawba Salada BronddoSavanimh Congaree Enoree				4.1	. 27	01		19	0.1	Ť						.32	.20	.07	.25	07				.08	18		. 21		(9			4,40 8,66 1,85
est***   d	Savannah Savannah Brond Saluda do Wateree		,	.21	. 02	. 86	.05	dr.	0H 1	. 61 I	T. . 11		.03		. 05	. (8	.25	. 62 . 30	. 16	. 04	. 46 . 05 . 24	T .		Т.	. 01	т.	.02	!		т.			2. 49 2. 15 4. 95 3. 13 2. 74 6. 07 4. 23
w .	Lynches Brond Sainda Sainda Sainda Sainda , do , do			::: -	1	. 10	. 70				.06	.12				17	. 05	. 61		. 25 .		97		r		.26					:: 1:		4.24 1.51 1.70 6.97 4.87 1.95 9.11
burg      a oro      ip College	Broad do Edisto Savannah Broad Cutuwba					1 10			00	- 1			m			Mr	- 1			- 1													2.27 1.72 4.52 2.09 4.14 4.09

rept us otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of varion. [[] Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Wenther Bureau station; precipitation is for the precipitation included in the next following measurement. [Separate dates of fulls not recorded. T. Trace, or less than 0.01 incl.

### COMPARATIVE DATA FOR SEPTEMBER.

										a ron ser	TEMP	E.R.							
	Te	mperatu	re.	Precip	itation.	Averag	e uum days.	her of	iling direc-		Te	mperatn	re.	Precipi	tution.	Averng	e numi days.	ber of	ling lirec-
sr.	Меап.	Highest.	Lowest.	Ауегаде.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind	Year.	Меан.	Highest.	Lowest.	Average.	Average lays with 0.01 inch or more.	Clear.	Partly cloudy.	Clouriy.	Prevail wind a
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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

M. Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 10-24 30-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

### CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

COLUMBIA, S. C. OCTOBER, 1930. HXXXIII No. 10

### GENERAL SUMMARY

infall was much below hormal.

aterially by cold, frosty nights during the latter part of the The average number of rainy days was normal. onth. Fairly good rains at intervals facilitated fall plowing, th oat planting quite general, and wheat and rye planting gan during the last decade; however, germination was rather ne northwestern sections, with ginning active. Housing the north on Greenville on the 24th. rn and other fall crops made good progress. Sorghum and ne molasses making was proceeding as the month closed.

### PRESSURE.

gular Weather Bureau stations in and surrounding the Sec-days, respectively. n, was 30.11 inches. The highest pressure was 30.54 inches at heville, N. C., on the 22d, and in the Section proper, 30,52 thes at Due West on the same date; the lowest pressure was ction proper, 29.77 inches at Greenville on the same date.

### TEMPERATURE.

The monthly mean for the Section, determined from rerts of 39 stations, was 60.5°, or 3.1° below the normal. The shest temperature was 88° at Calhoun Falls and Laurens on 16th and at Florence No. 1 on the 16th and 17th. The rm periods were from the 9th to the 17th, inclusive, and on 28th and 29th, when the daily mean temperatures ranged m 5° to 11° above normal. The lowest temperature was 25° Santuck on the 26th. The cold periods were from the 1st 7th, from the 18th to the 27th, and on the 31st, when the ily mean temperatures ranged from 5° to 16° below normal. lling frosts were quite general in the higher elevations from 19th to the 23d, extending to the northern coast by the 31st.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 rular Weather Bureau stations in and surrounding the Secn, was as follows: 8 a.m., 77%; noon, 50%; 8 p. m., 63%. e highest percentages occurred along the coast, and the lowest, the interior.

### PRECIPITATION.

The average for the Section, 52 stations reporting, was 2.18 inches, or 0.84 inch below the normal. Rainfall was below normal in most sections and was confined to four short periods. The amounts were badly distributed, with 3 to over 5 inches in two small areas of the upper coastal plain, taperit g off to less than one inch in the lower coastal sections and in The month was considerable cooler than usual, and the small areas of the northwestern counties. The greatest local monthly amount was 5.07 inches at Society Hill; least local Notwithstanding the generally light rainfall, hardy truck monthly amount, 0.75 inch at Spartanburg. The greatest 24d other fall crops made satisfactory advance, though checked hour amount was 2.12 inches at Florence No. 2 on the 15th.

The prevailing wind was from the northeast. The average egular, due mostly to cold nights. Cotton opened rapidly, hourly velocity, determined from 9 anemometer records, was d a very large percentage of the crop was picked, except in 6.0 miles. The highest velocity was 28 miles per hour from

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 244.0 hours, or 70% of the possible amount. The average number of clear days was 19; partly The mean sea-level pressure, determined from reports of 9 cloudy, 5, and cloudy, 7, as against normals of 18, 6, and 7

### RIVER CONDITIONS.

On account of comparatively light rainfall in the upper 75 inches at Wilmington, N. C., on the 15th, and in the reaches, the flow in the various streams of the Section was decidedly below normal, with few exceptions.

### MISCELLANEOUS PHENOMENA (dates).

Frost, Killing, or Freezing Temperatures.-19th. 3 stations; 21st, 1; 22d, 6; 23d, 5; 25th, 2; 26th, 6; 31st, 1

Halós-Lunar: Charleston, 30; Columbia, 6: Greenville, 5, 6. Solar: Charleston, 23, 27; Columbia, 2, 27; Due West, 17, 27; Greenville, 6, 21.

Fog, dense.—Due West, 16.

September, 1980.—Columbia, greatest 24-hour precipitation, page 24, shoule be 1.62.

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	MISC	ELLA	NEO	US 1	OAT	A F	OR O	CLORE	к, 1	830			
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$\begin{array}{llllllllllllllllllllllllllllllllllll$	Stations.	Barometer jevel.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	vera our glocit mile	Prevailing direction.	ė	Noon.		Percentag
	Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Dre West, S. C Breenville, S. C Savannah, Ga Wilmington, N. C. Means and ex. }	80, 09 30, 08 30, 12 30, 11 30, 15 30, 10 30, 07 30, 09	62.7 64.9 59.2 61.2 60.0 60.0 65.2 61.2	85 86 83 84 84 84 84 87 85	37 45 34 38 38 36 43 37	2. 16 0. 79 1. 19 1. 92 0. 81 1. 45 0. 64 1. 86	1.32 0.53 0.75 1.08 0.56 0.78 0.58 0.99	3.9 8.8 3.7 4.9 6.7 6.3 8 9 5.2	nw. ne. ne. ne. ne. ne.	82 75 77 75 76 72 77 76	47 55 54 51 48 49 52 47	62 69 62 56 59 65 68	70 74 72 65 72 69 70 74

### Climatological Data for October, 1930.

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			recend,		Temper	ature.	in deg	rees F	ahr.		Preci	pitation	in inc	hes.	Nun	ber	of da	ays.	tion	
Stations.	Counties.	Elevation, feet.	Length of re	Mean.	Departure from the normal,	Highest.	Pate.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, numelted.	(0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wasd.	Observers.
Eastern Partiau.																				
Beaufort (near) <sup>‡‡</sup> Blackville Charleston Uheraw	Beanfort. Barnwell. Charleston Chesterfield	21 296 48 144	49 46 59 48	64, 4 63, 1 64, 9 58,7	-8.4 -1.8 -2.9 -3.6	86 87 86 84	15 †16 16 16	40 87 45 29	†19 †23 31 26	35 39 20 40	1. 72 3. 35 0. 79 2.98	$ \begin{array}{r} -1.05 \\ +0.60 \\ -2.48 \\ +0.22 \end{array} $	1.17 1.65 0.53 1.74	0 0 0 0	8 6 4 3	21 19 16	5 8 9	5 4 6	e. ne.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthew U. S. Wenther Bureau. Roland D. Powe.
Conway Darlington Ellingham Ferguson <sup>‡</sup> ‡	Horry Darlington Florence Orangeburg	25 175 106 63	40 35 39 44	61. 8 59. 9	-3.0 -3.7 -3.5	87 85 85	†16 †16	30 32 80	26 †28 26	48 41 41	4, 58 4,24 4,72 2,74	$^{+1.34}_{+1.30}_{+1.79}_{-0.22}$	2.00 2.09 2.02 0.98	0 0 0 0	4 4 4 5	26 19 	0 6 	5 6 	ne.	Perry B. Quattlebann. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	llampton Georgetown	136 136 82 18 54	48 15 12 37 48	61.4	-2.8 -5.0 -2.7	88 87 85	†16 17 †16	31 34 81	27 26	43  45  43	3.10 3.97 0:90 1,62 2.55	+0, 13 +1, 00 -1, 58 -1, 68 -0 21	1, 41 2, 12 0 65 0, 92 1, 00	0 0 0 0	5 4 2 3 4	21 20 25  23	2 6 3 	8 5 3 	ne. ne.	H. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Brooklyn Cooperage Co Mrs. Ellen Scott.
Mariou Mars Bluff Orangeburg Pinopolis Rimiui	Marion Florence Orangeburg Berkeley Sunter	68 92 264 54 97	5 7 14 83 16	62. 4 62. 6	-3.4 -1.5	86 83	16 †16	35 39	27 †23	38	3.37 3.35 3.01 1.90 2.01	+0.99 -1.08 -0.42	1.50 1.87 1.29 1.75 1.02	0 0 0 0	3 4 5 2 3	15 18	 8 7	 8 6	ne, s,	Alden F. Schell. Rosa R. Davis. U. S. Fisheries Station Miss E. P. Ravenel. Floyd C. Martin.
Society Hill	Darlington	169	39 82 6 40 41	61.6	-3.6 -3.4 -4.0	*86 87 86 83	†16 †15 † 4	84	†23 26 26 125	<sup>b</sup> 48 41 41  42	5.07 1.30 2.79 0.98	+2.19 -2.03 -1.85	1. 90 0. 57 1. 79 0. 46	0 0 0	5 6 	25 17 24 22	4 8 3 	2 6 4 	n. n. se.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extremes			61.6	-3,2	88	†16	29	†23	45	2.65	-1.23	2. 12	0	4	21	4	6	ne.	
Western Portion,																				
Aiken Anderson Blairs Cæsars Head‡‡ Calhoun Falls Camden	Aiken Anderson Fairfield Greenville Abteville Kershaw	527 764 293 3118 508 222	68 37 25 6 31 80	62.7 60.2 57.2 60.9 59.8	-1.2 -2.9 	83 84 76 88 84	16 16  15 16 17	36 35 26 33 29	81 81 31 †25 26	35 40  29 40 40	2.59 1.17 2.74 1.85 1.20 2.10	+0.08 -1.55 +0.25 -1.60 -0.51	1. 19 0. 47 0. 94 0. 97 0. 64 0. 77	0 0 0 0 0	5 5 6 3 6	24 21  17 16	1 8  5 4	6 7  9 11	ne. w.	Frank B. McCoy. H. H. Russell. Sgrah L. Owens. Casar's Head—P. Mtn. Co L. M. Turker. Henry A. Brown.
Catawba	Vork Newberry Spartanburg Chester Oconee Richland	562 402 758 487 850 351	24 25 2 8 38 44	57. 4 60. 2 61, 3	-1.4 -3.1	85 86 84	†16 †16	26 28 38	26 26 26	47  44 33	1.51 1.74 1,11 1.99 1,92	-1.81 -0.77 -1.31 -0.64	0. 99 0. 67 0, 56 1. 00 1. 08	0 0 0 	3 4 5 5 5	23  8 16	 2 9 9	0 14 6	nw.	Jumes C. Furis. William Spearman. Spartanburg Water Work J. C. Cornwell. Prof. F. H. H. Culhoun. U. S. Weather Bureau.
Crescent. Due West Edgefield Guston Shoals [], Gregnville.		630 711 680 1039	4 16 16 27 46	60.0	-2.1 -0.2	84 	17	33	25  16	35  29	1.46 0.81 0.77 1.45	-1.02 -2.19 -1.67	0.54 0.56 0.82 0.73	0 0 0 0	4 5  4 6	14  15	10  10	 7  6	ne ne.	Broad River Power Co. U. S. W. B. Aerological St Agent C. and W. C. Ry. Southern Public Utilities U. S. Weather Bureau,
Greenwood Heath Springs Kershaw Landrun Laurens	Spartuniure	671 568 500 1063 589	46 28 14 15 12	60. 8 58, 1 59. 6 60. 0 60. 8	-1.7 -4.3 -4.4 -2.3 -1.6	85 84 87 85 88	17 16 17 16 16	32 30 30 29 30	†28 22 26 26 26 26	34 34 45 41 44	1, 02 1, 92 1, 97 2, 52 1, 06	$ \begin{array}{r} -1.81 \\ -0.60 \\ -0.14 \\ -1.79 \\ -1.04 \end{array} $	0, 52 1, 60 0, 84 0, 69 0, 56	0 0 0 0	2 2 7 6 5	20 15 19 21	 2 0 7 7	9 16 5 3	w. e. w. n,	M. M. Culhonn, J. Marvin Bowers, John W. Hamet, R. Hartwell Wilds, D.D.S L. G. Roff,
lattle Mountain. New berry Pelzer Salnda Sautnek	Newberry Newberry Anderson Saluda Union	711 502 850 536 512	37 26 26 28 37	60.3 60.2  57.8	-3.7 -3.2 -4.1	88 86 185 87	16 16 16 15	34 81  t <sub>28</sub> 25	†22 20  81 26	39 43 **********************************	2.81 2.61 1.32 2.50 1.43	0.00 $+0.11$ $-2.10$ $-0.28$ $-1.68$	1.58 1.56 0.46 0.90 0.86	0 0 0 0	5 7 6 5 5	16 20 25 20	6 5 8 6	9 6  3 5	n. e. n. w.	Miss Alberta Sease. John H. Baxter. Joshum Y. Jones. B. B. Blease. E. W. Jeter.
Spartauburg Treuton Walhalla Winnsboro Winthrop Callege ##		690	58 87 30 36 30	56. 4 62. 4 58. 2 60. 0 59. 8	-4.6 -2.2 -2.4 -2.4 -2.6	84 82 85 <sup>1</sup> 86 86	16 † 4 16 16 16	28 37 29 *34 30	26 31 †26 †22 26	39 37 44 536 41	0.75 2.19 2.14 2.24 1.81	-1.79 -0.77 -1.22 -0.73 -1.38	0.32 1.40 1.03 1.17 0.90	0 0 0 0	4 8 7 6 4	24 21 20 18 16	1 6 5 8 14	6 4 6 5 1	e. nw. ne. n.	M. H. Daniel. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
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## Daily Precipitation for October, 1930.

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Except us otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of many period, midnight to midnight. \* Precipitation included in the next following measurement. ISoparate dates of falls not recorded. There or less than 0.01 inch.

## COMPARATIVE DATA FOR OCTOBER.

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Treuton / Minimum		54	45 72	41 81 47 80 43 77 47 78 45	82 62 77 48	52 77	75. 49. 77. 46.	50 77	58 65	63 65	78 57 80	60 79	55	79	83 52	58 82 52	85	83 54	68	42 6 72 7 80 8 71 7 88 4 72 7 86 6	7 4 4 6 9 3	2 8	n 5	5 7 9 5 5 7 8 4 6 7 6 4	1 7	2 2	36 7 29 3	0 64	68	65	53
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Winnsboro M Minimur	1	54	44	47	49	49	79	40 77 48	54	59	80	82 59	79	78	74	60 83 59	86	84	78	72 7	2 6	4 6	32 8	32 3	51 6	4 6	20 3	5 5	5 59	4	5 32
Wiothrop College   Maximur	11	74	70	1 78	49	75	48	40	2.4	56	58	50	6.1	62	53	59	56	56	42	36	15 4	fij è	52 4	2 4	30 0	"		0	0.	1	. 0.1

Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 11-25-30-900

### U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief,

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

Vol. XXXIII. COLUMBIA, S. C., NOVEMBER, 1930.

verage, and precipitation was much above normal.

Wheat, oat, and rye planting progressed throughout the on the 21th. nonth, but germination was rather slow generally incident to wo prolonged cold periods. The rains were ample for plowinprovement. Cotton picking and ginning were practically nished by the last week. Hog killing became increasingly ctive under favorable conditions. The woods were generally are by the 18th.

### PRESSURE.

The mean sea-level pressure, determined from reports of grays respectively egular Weather Bureau stations in and surrounding the Seeion, was 30.21 inches. The highest pressure was 30.80 inches at DEC The rivers of the Section were near or somewhat above ion proper, 30.79 inches at Due West on the same date; they incident to copious rains between the 12th and 18th. owest pressure was 29.56 inches at Charlotte, N. C., on the Ith, and in the Section proper, 29.61 inches at Greenville on he same date.

orts of 39 stations, was 50.8°, or 2.9° below the normal. The ville, 3, 6, eighest temperature was 85° at Trenton on the 18th. The Fog. d carm periods were from the 13th to the 23d and on the 30th, formal. The lowest temperature was 6° above zero at Caesar's 21; Trenton, 20, 21, 22, 30.

Head (mountain station) on the 27th. The cold periods were rom the 1st to the 8th and from the 25th to the 29th, incluive, when the daily mean temperatures ranged from 5° to 23° pelow normal. The line of freezing temperatures advanced to he lower coast by the 27th.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 egular Weather Bureau stations in and surrounding the Seeion, was as follows: 8 a.m., 81%: noon, 63%: 8 p. m., 70%. The highest percentages occurred from the central sections to the ower coast, and the lowest, in the northwestern counties.

### PRECIPITATION.

The average for the Section, 52 stations reporting, was .35 inches, or 2 62 inches above normal. Precipitation ocsurred in three fairly well-defined periods, and the bulk of the month's rainfall occurred between the 11th and the 18th. The

measurements ranged from 3 to over 8 inches in the middle and western counties and ima small area along the upper coast, while in small sections of Sumter, Charleston, and Horry Counties, the total monthly amounts were less than 2 inches No. 11 The greatest local monthly amount was 8.67 inches at Caesar's Head; least local monthly amount, 1.22 inches at Charleston. The greatest amount during any 24 hours was 2.23 inches at GENERAL SUMMARY.

Thermal conditions ranged generally below the monthly age, and precipitation was much above normal.

Thermal conditions ranged generally below the monthly age, and precipitation was much above normal.

### WIND.

The prevailing wind was from the northeast: The average ng, but this work was generally suspended about the middle hourly velocity, determined from 9 anemometer records, was f the mouth on account of wet soil. Hardy truck maintained 7.1 miles. The highest velocity for any 5-minute period was enerally healthy growing condition, and the warm period 36 miles per hour from the west at Savannah, Ga., on the 26th, bout the middle of the month was attended by considerable, and in the Section proper, 34 miles per hour at Greenville on the 25th and at Due West on the 26th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 145.4 hours, or 47% of the possible amount. The average number of clear days was 12: partly cloudy, 5, and cloudy, 13, as against normals of 17, 6, and 7

### RIVER CONDITIONS.

Charlotte and Wilmington, N. C., on the 29th, and in the Section rmal in the central and western streams, with moderate rises

### MISCELLANEOUS PHENOMENA (dates).

Killing Frost or Freezing Temperatures.—1st, 6 stations; 2d,

2; 25th, 1; 26th, 1; 27th, 2; 29th, 1.

TEMPERATURE.

Halos—Lawar: Charleston, 28; Columbia, 3; Due West, 6; Greenville, 3, 6; Santuck, 7, 9. Solar: Charleston, 16;
The monthly mean for the Section, determined from re-Columbia, 6, 9, 17, 23, 30; Due West, 3, 6, 9, 23; Green-

Fog, dense.—Catawba, 22: Charleston, 22, 24; Cherokee (near), 22; Columbia, 15, 16, 21, 22; Due West, 16, 18, 19, rith daily mean temperatures ranging from 5° to 20° above 21, 22, 30; Greenville, 22; Landrum, 15, 22; Santuck, 18,

ERRATA.

October, 1989.—Pressure, text, 6th line, page 37, should be 29.74 inches at Wilmington, N.C.

MISCE	LLAN	EOU	S D	ATA	FOF	NO	VEMB	ER,	193	0.		
	808		perati		tio	pita- 11, hes.	Win 3-eup A	nem.	re	lean lativ nidi	re	age of po-
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	\$ p. m.	Percentage
Asheville, N. C Augusta, Ga Charleston, S. C Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga Wilmingtou, N. C Means and ex-	30, 23 30, 20 30, 20 30, 22 30, 22 30, 25 30, 21 30, 18 30, 22	44. 1 53. 4 56.0 48. 8 52. 0 49. 4 49. 0 56. 5 53. 5	78 78 78 75 74 78 76 79 78	11 26 30 23 26 23 21 30 26	2. 84 4. 70 1. 28 5. 17 4. 13 5. 53 5. 82 2. 88 1. 92	0.79 1.47 0.66 2.09 1.32 1.52 1.57 1.19 1.03	7. 4 4. 8 9. 7 4. 5 6. 1 7. 9 7. 9 10. 4 5. 6	se, ne. ne. ne. ne. ne. ne. ne. ne. ne. ne.	85 80 81 82 86 82 76 82 77	60 61 64 62 70 62 64 70 58	67 68 74 66 72 68 76 76	45 47 47 52 45 46 44 49 40 52
tremes	30. 21	51.4	79	11	3, 80	2.09	71	ne	81	63	70	47

### Climatological Data for November, 1930.

				С	limate	ologic	al D	ata :	for N	lover	aber,	1930.								
			record,	Te	empera	ture, ir	ı degr	ees F	inr.		Precip	itation.	in inc	nes.	Num	her	of da	ıys.	etion	
Stations.	Counties.	on, fee	Length of rec-	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	(treatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelled.	With precipit on (0.01 in. or more)	Clear.	Partly cloudy.	Clouds.	Prevailing direction of wind.	Observers.
Eastern Portion.				1																
Beaufort (near)‡‡ Blackville Charleston Cheraw	Beaufort Barnwell Churleston Chesterfield	21 296 48 144	49 46 59 48	53. 7 56. 0 50. 0	-1.9 -2.1 -2.4	79 78 76	18 16 16	24 30 20	28 27 28	46 22 50	3. 21 1. 23 3. 34	+1.16 -0.91 +1.16	1. 12 0. 66 1.22	0 0 0	8 10 6	8 8	11 8	11 14	ne.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway	Horry	25 175 106 63	40 35 89 44	53. 3 51. 4	-0.9 -1.6	78 78	16 †16	23 19 22	28 28 18	48 48  50	3.03 2.92 2.64 2.52	$^{+0.80}_{+0.94}_{+0.59}$ $^{+0.89}_{+0.39}$	1.10 0.95 0.90 1.02	0 0 0 0	7 7 7	13 14	13	17 8 	ne.	Perry B. Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Florence	136 136 82 18 54	48 15 12 37 48	53. 2 *55. 4 53.0	-0.9 -2.3 -1.8	79 *82 78	16 15	21 **22 **22	28 28 28	48 *43 42	2. 93 3. 37 3. 96 2. 89	+0.88 +1.32 +1.47 +0.81	1. 05 1. 31 1. 05 0. 85	0 0 0	7 6 10  8	14 13 11 		10	ne. e. n.	H. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Brooklyn Cooperage Co Mrs. Ellen Scott.
Marion	Marion Florence Orangeburg Berkeley Sunter	68 92 264 54 97	5 7 14 83 16	°52. 6 53. 4 53. 0	-1.0 -1.3	°77	†16 16 †15	°22 24 28	29 28 28	°49 	2. 99 2. 13 2. 91 3. 90 4. 44	+1.41 +1.51 +2.78	0.91 0.73 0.95 2.00 1.58	0 0 0 0	6	12	5	15	n. ne.	Alden F. Schell. Rosa R. Davis. B.S. Fisheries Station Miss E. P. Ravenel. Floyd C. Martin.
Society Hill	Darlington	192 75 169 249 24	39 32 6 40 41	54.6	-3.8 -1.7 -1.8	<sup>8</sup> 80 84 77 79	15 15 16 	<sup>5</sup> 19 21 21 23	26 28 28  29	<sup>b</sup> 41 39 50 	3. 69 1. 95 1. 75 3. 68	+1.51 -0.37 +1.61	1. 09 0. 80 0. 82 1. 42	0000	10 5	12	8 4	19	n. ne.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extremes			53.6	-1.1	84	15	19	28	50	2.97	+0.90	2.00	C	8	12	6	12	ne.	
Western Portion,																			ne.	
Aiken Anderson Blairs Casars Head i Calhonn Falls Cannden	Fairfield	527 764 293 3118 508 222	37 25 6	53.4 49.2 40.0 50.0 50.0	-0.9 -3.6	78 78 65 79 80	18 18 18 19 18	25 21 6 22 19	28 27 27 †27 †27 28	27 41	3. 61 5. 25 4. 35 8. 67 4. 54 3. 99	+1.07 +2.61 +2.11 +2.22 +1.66	1.45 1.20 1.83	2.	10 8	i	3 9	15	e.	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Casar's Head-P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba Chappelis. Cherokec (near). Chester Cleuson College	York Newberry Spartanburg Chester Oconce	562 402 758 487 850 351	25 2 8 38	46. 7 50. 3 52. 0	0, fi 2, 0	76 80 74	18 17 18	15 18 26	+2	44	5. 33 5. 42 6. 25 4. 28 4. 18	+1.49	1. 62 1. 52		9 9 12 9 8 10 8 10 9	3 1		2 1 1 8 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nw.	William Spearman. Spartanburg Water Works J. C. Cornwell.
Columbia  Crescent.  Due West Edgefield Ellention Gaston Shoals!!	Spartauburg Abbeville Edgelield Aikeu	630 711 76 680	16 16 16 27	49.4	-3, 6	78	18	21	2	32	7. 05 5. 55 5. 16 3. 57 5. 46 5. 85	+3.5 +2.89 +2.73	1.5	1	0 8	9	0 6	5 1		A. A. Foreman. Southern Public Utilities.
Greenwood Heath Springs Kershaw Landrum	Greenwood Lancaster Kershaw Spartanburg	671 569 500 1069	46 28 14 15	4. 86 49. 6 51. 0 47. 6	-2.4 -1.5 -3.6	76 80 76 81 74 79	18 19 18 18 18 18	21 22 20 17 18 20	1 2 2 2 2 2 2 2	42 42 51 42 51 42	5. 16 4. 6: 3. 68	+2.50 +2.40 +1.70 +3.10	0 1.69 6 1.5- 9 0.99 6 1.3	2 4 9 8	0 1	9	2 0 6		0 w.	M. M. Calhoim. J. Marvin Bowers. John W. Hamel. R. Harlwell Wilds, D.D.S. L. G. Roff.
Laurens Little Monntain Newberry Pelzer Salnda Sautuek	Newberry Newberry Anderson Saluda	71: 50: 85: 53:	37 2 26 3 26 6 28	49. 8 50. 2	-3.9	75 80 76	18 18	28 20	2 2	7 39 46	6.00	+3.4 +2.4 +1.9	9 1.8 8 1.6 2 1.7	4 0 0	0 1	9 :	3		2 e. 5 110.	Joshua Y. Jones. B. B. Blease. E. W. Jeter.
Spartmburg. Trenton Walhalla Winnsboro. Winthrop College []	Spartanburg Edgefield	87: 62: 106 54	5 58 0 37 1 30 5 36	46. 1 53. 2 46. 6	-4.6 -1.7 -4.0 -0.5	°77	18	02	2 2 5 2 8 †2	8 45 8 39 7 *36	4.7 6.5 4.3	3 +2.2 1 +3.5 9 +2.2	8 1.6 1 1.7 2 1.2	0 8 90 96	0 0 0	7 0 9 8	11 14 9 12	7 1 5 1 5 1	13 12 e. 11 ne 16 ne 12 n.	Rev. Oliver Johnson W. T. Clawson.
Division menus an	1 extremes		1		1					7 5			N.		.1	- 4	13		13 ne 13 ne	1

Daily Precipitation for November, 1930.

	Drainage-														1	my (	of me	outh															
Stations.	bustus.	1	2	8	4	5	6	7	s	9	10	11	12	13	11	15	16	17	18	19	20	21	22	23	21	25	26	27	28	29	30	31	Tota
stern Portion, orr(tear). ville    ston ***, w	Const																														  		3, 21 1, 23 3, 31 3, 63
ugton [] Jusin [] Soft [] Juce 1 [] Luce 2 [] Luce 2 []	Pre Dee			.20	. 61 . 08 1. 05 . 92 . 16	.05						.01	T . 22 . 07 . 50	. 90 .t, 62 . 66 . 83 1. 05	.04 .03 .02 .03 .48	.10	. 19 . 31 . 20 . 68	.75 .43 .71 1,31 .65	T			T.			T.								2, 92 2, 64 2, 52 2, 93 3, 37 3, 96
etawn   Irre	Const Black Pee Dee. do Edisto Cooper																	.28	.05 T.	T.	T.	т.									.80		2, 89 2, 99 2, 13 2, 91 3, 90
i      y tiill      erville       field seed    stern Pation,	Santee Pee Dee Asbley Wateree do Ashepoo	1.09			∵ii	. 25							.09	. 69 . 80 . 66	.09	. 51	. 45 . 03 . 82	. 01															4, 44 3, 69 1, 95 1, 75 3, £8
sou 	Edisto				. 87 1. 20 . 20	. 64						.03	1. 20 . 10 1. 43 . 29	. 15 1, 10 . 16 1, 30	. 18 . 05 1,82 . 18	1.45 .90 1.83 1.06	.81 .50 .58	. 12 . 40 1, 82 . 48	. 10								. 01				. 42		3, 61 5, 25 4, 85 8, 67 4, 54 3, 99
on	Cntuwba Sulada Broad do Sayannata Cangaree Enoree																																5, 33 5, 42 6, 75 4,23 4, 13 7, 63
14]*** old 02	Savatinah Savannah Savannah Broad Saliida do Wateree			1	1.11						T.	. 04	1. 32	.02	. 44	1. 13.	. 96	. 03		T.		T	. 01		Т.				'		. 43		5, 53 5, 16 3, 67 5, 46 5, 82 5, 16 4, 62
ow	Lyuches Brond Saluda Saluda Saluda do do				. 99° 1. 24 1. 50° 1. 45° 1. 84 . 54	.03						.08	.06 t.11 t.29 .75 t.45	.81 .33 .18 .90 .30	. 12 . 10 . 10 . 10	.41 1.38 .97 .69 1.00	. 94 1. 18 . 81 1. 10 . 80 . 50	. 14 . 32 . 06 T	.07	T											.61 .49 .20 .48		3, 68 6, 44 5, 50 5, 19 6, 03 5, 24 4, 40
k	Broad			1	. 74 . 74 . 80 . 12	. 37					Ť.	T.	1.78	2. 23 T. . 05 1. 20	.25	1. 15 . 60 1. 40	.20 .70 1.75	. 52 . 05 . 40 . 53					.03			r.					.79 .50		6, 25 5, 55 4, 53 6, 51 4, 39 5, 92

scept as otherwise indicated, observations are generally made late in the afternoon, near smost, and precipitation recorded is for the 24 hours ending at the time of ervotion. ||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the our period, midnight to midnight. \* Precipitation included in the next following measurement. | Isoparate dates of falls not recorded. || T. Trace, or less than 0.01 huch.

### COMPARATIVE DATA FOR NOVEMBER.

	Tr	mperatn	rre.	Precip	itation.		e ninm dnys.	ber of	ling lirec-		Te	mperatu	ire.	Precipi	talion.		e nam days.	ber of	ling irec.
eter.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	2	Partly cloudy.	Cloudy.	Prevail wind di	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cioudy.	Cloudy.	Prevai wind
	52.3 52.7 54.8	78 82 84	18 22 18	0.82 2.77 3.84	4 8 6				nw w.	1910, 1911 1912	51.1 51.2 52.1	85 83 84	24 19 17	1. 04 3. 30 2, 71	4 8 4	20 13 22	6 7 4	10 4	s. ne. w.
	58. 4 51. 9 53. 9 52. 9	82 86 87	15 14 15	0. 64 2. 48 1. 96 2. 11	5	14	8	8	ne. sw. ne.	1913 1914 1915	53. 5 52. 4 56. 3 54. 5	89 86 88 88	18 17 24 17	1,79 3,83 2,36 1,21	2 6 4 4	21 19 22 18	5 4 4 5	4 7	w. w. w.
	52. 8 54. 4 59. 1 55. 8	83 88 90 88	17 21 26 23	2.02 2.35 4.00 1.99	4 6 7 5	18 12 12 16	7 8 8	5 10 10	nw. ne. ne.	1917 1918 1919	50. 4 53. 0 56. 6 52. 3	83 86 92 87	16 26 20 18	0.82 3.13 0.86 3.62	4 7 8 6	21 18 18 18	4 3 6 4	5 9 6 8	ne. ne. ne.
	51.0 55.0 55.6 48.2	82 86 92 85	14 22 22 22 17	4. 72 2. 41 3. 32 1. 01	10 5 6	14 16 13 21	6 8	10 8 9	ne. ne. sw.	1921 1922 1923 1924	56.9 54.8 51.1 54.4	86 88 82 87	24 17 21 21	3. 11 0. 61 2. 79 1. 35	7 3 6	13 20 16 23	6 5 5	11 5 9	W. 1144. 1146 W.
	59. 2 50. 9 51. 6	89 86 80	22 10 22	3.80 1.40 2.78	6 5 6 8	13 14 17	7 8 6	10 8 7	ne. n. w.	1925 1926 1927	50, 4 50, 0 57, 2	82 85 84 85	15 17 22 11	3.81 3.05 1.45	5	14 17 15 19	5 5 6	11 8 9	ne.
	54. 5 53. 8 52. 2 56. 6	90 89 87 88	21 20 24 24	1.31 0.96 4.13 1.60	3 10 3	17 18 12 16	8 7 10	4 11 4	sw. ne. ne. sw.	1928 1929 1980	52. 8 54. 7 50. 8	90 85	6	0, 72 3, 85 4, 35	10	12 12	5 5	14 13	sw. ne. ne.
	58.3	88	20	0.97	3 .	18	9	3	SW.	Period	58. 7	92	2	2.33	5	17	6	7	ne.

	1-				-		Dail	ly T	Cem	рег	atu	res	for	No	vem	ber	, 18	930.														
Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	30	31 2	fean.
Stations.			1	-		-	1		1		1	1	-	1	Ī	1	1	1								1					1	
Eastern Partion.																																
Beaufort (near) (Minimum	57	58	5	i 4	Β €	7 6		6	1 7	2 7	0 6 17 5 58 6	1 6	0 6	5 6	4 7	5 7	70	79	78 56	64 51	60 52	70 51 71	67 52 65 56 65 52 62	60 42 61 50 58 35	51 51 54 50 40 50 50 51 54 54 54 54 54 54 54 56 56 56 56 56 56 56 56 56 56	1 555 4 380 5 56 0 36 0 555 4 55 8 56 6 37	48 25 47 80 44 21 49 25 42 25	53 24 50 34 48 20 48 23 49	59 27	78 45		62. 44.
Blackettle / Minimum	38 55 40	3. 5.	2 3	6 4	3 6	7 6 3 4 1 6	1 5	6 8 6 4 6 4	2 6	8 6	8 6	7 6	5 6	5 6 9 5 6 6 0 5	7 5 6 7 9 6 6 6	5 7	1 62	77	65 58	54 54	52 60 56	54	65 56	61 50	50	36	30	34	40	54		49.
Charleston (Minimum	5.9	3 5	1 1	2 4 52 5	2 6	17 4 13 5	6: 4	S 5	7 6	5 6	251 4	6 5 2 5 1 5	8 6	2  = 6	6 6	1 5	6	1 76 1 59	65 55	59 48	58 50 69	48	52	35	34	1 35	21	20	22	30		40
(Theraws) Minimum Maximum	32 58 34	5 5 5 5 5 5 5 4 4	8 5	27 4 54 5	1 6	17 4 13 5 12 3 52 6 11 3 50 5 45 3	0 5	1 2 4 6 4 3	1 7: 3 4 2 6 1 4 7 6 5 2 5 5 7 6 6 3 9 6 7 3	2 6	35 4 59 6 36 4 68 6 35 4	7 6 1 5 5 6	5 6	59 5	2 5 6 6 4 5	δl 6	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 76 5 60	56 65 58 63 55 70 56 68 69 55	48 60 5 5 5 5 5 5 5 5	58 58 51	54 71 48 74 47 72 50	51 68 51	44 59 36	38	8 37	25	23	27 56 40 51 22 58 26 58 26	41 74		44. 62. 49. 60 40 63. 43. 61.
Conway / Minimum / Maximum	69	5 5	9 5	54 5 32 4 56 4 30 8	8	50 5 45 3	0 5 6 3 8 5 8 3	1 5	9 6	9 6	68 6 35 4	5 6	0 1	59 5 52 6 52 5	4 6	8 7 5 5	6 6	3 78 2 60	55	5 49	51	50	51	36	3 30	1		19	21			
Darlington W / Minimum	5	1			1		0 5	9 6	34 7 31 8	1		2 7			6 7	5 8	1 7	4 76 0 59	67	66	68	70 53	70 40	68	1 34	9 51 6 37	52	51	75	70 33 78		63 41 63 42 •66 •44
Ferguson " (Minimum	8:	2 2 5	8.	37 4 30 3 50 5	4	42 3 65 6	4 3	2 3	31 3	3	72 6	14 5 38 6	52 51 19	63 E	5 7	5 8 7 5 8 7 5 6 2 7	1 7: 9 6: 9 7: 4 6:	8 7	69	5 51 6 66 5 52	58 58 54	68	40 60 47	6 46	5: 5: 6: 7: 5: 8: 7: 5: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	9 51 6 37 2 59 5 36 9 60 6 31	27 9 46 5 24 0 57 5 25	51 22 50 21 54 2:	75 2 25 3 59 1 26 4 65	78		63 42
Florence I / Minimum / Maximum	5	1 5 2 3 9 6	3	56 8	50	40 3 65 6	5 6	5 6 2 2 57 6 17 8	33 7 29 3 36 7 37 4	3 6 6	75	65 6	64 50		8 8	2 7	9 7 2 6	0 79 0 59	9 78 9 58	52 6 70 8 53	61	55	47 70 47	67	3 3	9 60 6 3	57 25	2:	228	3		*44
(arnett / Minimum / Maximum	. 3	0 2	8	37	39	43 8	35 3													1::::				ļ.;					i co	70		62
Kingstree/Minimum Kingstree/Minimum	. 5	5 5	31	54	50	61	59	58	61	31	68	64	63 55	64 6 59 8	55 5	6 7	8 7	1 7 2 6 2 7 1 6	4 7: 2 5:	2 66 6 5 6 6	5.	5	65	5 54 4 4 3 5 9 3	3 3	5 5 4 6 2	6 46 0 2t	2:	2 25	48	3	62 43 68 •42
Maximum	. 5	6 5	58	33 52 28	48 48 48	44 62 40	59 37 59 35	51	30 61 25	72 29	68 37 70 32	44 68 48	55 62 51	64	50	57 6 71 7 54 6	3 6	2 6 2 7 31 6	7 6 0 5	5 4	6		1	9 3	7 3	36	1		. 2:	2 30		
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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. % Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 12-23-30-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

L. XXXIII. COLUMBIA, S. C., DECEMBER, 1930.

### GENERAL SUMMARY.

nbers during the past 44 years being colder. Precipitation raged somewhat above normal.

Wheat, oats, and rye germination was rather slow incident he prevailing low temperatures and deficient sunshine, but Garnett, and Marion on the 22d, and at Due West on the 26th. se crops maintained generally healthy growing condition. I the snow and sleet covering afforded protection against ch freezing and thawing; planting was practically finished the end of the month. Hardy truck made fair advance, and hourly velocity, determined from 9 anemometer records, was

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 ular Weather Bureau stations in and surrounding the Secmington, N. C., on the 25th, and in the Section proper, at Columbia. 68 inches at Columbia and Due West on the same date; the est pressure was 29.74 inches at Wilmington, N. C., on the h, and in the Section proper, 29.78 inches at Greenville on, 28th.

### TEMPERATURE

The monthly mean for the Section, determined from reis of 41 stations, was  $41.5^{\circ}$ , or  $4.9^{\circ}$  below the normal. The best temperature was  $74^{\circ}$  at Garnett on the 11th. The from the 10th to 12th, inclusive, when the daily mean peratures ranged from  $5^\circ$  to  $13^\circ$  above normal. The lowest perature was 10° at Walhalla on the 18th and at Spartang on the 20th. The cold periods were on the 2d and 3d, on 8th and 9th, and from the 15th to the 31st, inclusive, on the daily mean temperatures ranged from 5° to 19° be-

### HUMIDITY.

The mean relative humidity, determined from reports of 9 dar Weather Bureau stations in and surrounding the Sec-, was as follows: 8 a.m., 82%: noon, 63%; 8 p. m., 67%. highest percentages occurred in the coastal sections, and the est, on the north-central border.

### PRECIPITATION.

The average for the Section, 53 stations reporting, was inches, or 0.31 inch above normal. Precipitation oced in five fairly well defined periods and was fairly well ributed. Measurements of 4 inches or more occurred in Piedmont and the northeastern counties, while in a conrable area from the lower coast to the north-central border, total amounts ranged downward from 4 to less than 3 ies. The greatest local monthly amount was 5.93 inches

at Caesar's Head; least local monthly amount, 2.04 inches at at Caesar's Head; least local monthly amount, 2.01 swas 3.03 Aiken. The greatest amount during any 24 hours was 3.03 inches at Caesar's Head on the 5th. The average number by OF THE

A general glaze, sleet, and snow storm occurred over the State on the 16th and 17th, with thin ice on exposed objects and depths of sleet ranging from 1 to 1 inches in the central 937 sections, and snowfall in the higher elevations ranging from The month was abnormally cold, but two previous De- Traces to 14.4 inches. The sleet and snow remained on the ground an unusual length of time incident to the prolonged cold weather during the latter part of the month. Light sleet also occurred at Beaufort (near) on the 20th, at Blackville,

### WIND.

decade, when additional cabbage planting proceeded, and 30 miles per hour from the northwest at Savannah, Ga., on the 26th, and in the Section proper, 27 miles per hour from the east at Charleston on the 16th.

### RIVER CONDITIONS.

The rivers of the Section ranged near normal flow during n was 30.12 inches. The highest pressure was 30.69 inches at the month, except unusually low water in the Congaree River

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 151.5 hours, or 49% of the possible amount. The average number of clear days was 14; partly eloudy, 6, and cloudy, 11, as against normals of 14, 6, and 11 days, respectively

### MISCELLANEOUS PHENOMENA (dates).

m periods were generally on the 1st, on the 6th and 7th, 12, 30; Greenville, 4, 31; Walhalla, 4. Solar: Charleston, from the 10th to 12th, inclusive, when the daily mean 10, 31; Columbia, 25; Duc West, 12, 36; Greenville, 10, 25, 21, 12; Charles

Fog, dense.—Benufort (near), 1; Blairs, 2, 12, 13; Charleston, 6; Cherokee (near), 7, 18; Columbia, 20, 26; Due West, 1, 19; Greenville, 7, 12, 26; Mars Bluff, 20; Pelzer, 7; Winnsboro, 20,

### ERRATA.

November, 1930.—Parlington, greatest 24-hour precipitation, page 42, should be 6.92. Greenville, date of minimum temperature, page 42, should be 50.4; mean maximum temperature, page 42, should be 50.4; mean maximum temperature, page 44, should be 50.4;

### MISCELLANEOUS DATA FOR DECEMBER, 1930.

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James C. Faris.
William Spearman.
Spartanburg Water Works
J. C. Coruwell.
Prof. F. 41, H. Calboun
U. S. Weather Burean.

Broad River Power Co.
U. S. W. B. Aerological Ste
Agent C. and W. C. Ry.
A. A. Foreman.
Southern Public Utilities.
U. S. Weather Bureau.

M. M. Carmoni,
J. Marvin Bowers.
John W. Hamel.
R. Hartwell Wilds, D.D.S.
L. G. Roff.

M. M. Calhoun.

Miss Alberta Sease John H. Baxter. Joshun Y. Jones. B. B. Blease. E. W. Jeter.

M. H. Daniel.
Mrs. S. E. Long.
H. W. Brandt.
Rev. Oliver Johnson
W. T. Clawson.

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Stations.	Counties.	n, feet	Length of recognition	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	(dreatest daily range.	Total.	Departure from . the normal.	Greatest in 24 hours.	Total snowfall, unmelled.	(0.01 in. or more)	Clear.	Partiy blondy.	Cloudy.	Prevalling direct of wind.	Öbservers.
Eastern Portion.  Bennfort (near) 33 Blackyllle Charleston. Cherky Conway Darlington Ellingham Ferguson 43 Florence 1 Florence 2 Garnett. Georgetown Kingstree. Marion. Mars Bluff Drangeburg Phospolis Runini Soriety Hill Somber till So	Barnwell. Charlesson Chesterfield Horry Darlington Florence Orangeburg Florence do Hampton Georgetown Williamsburg Marion Florence Orangeburg Berkeley Sunter Darchester Simiter Simiter Simiter Simiter Simiter	296 48 144 25 175 106 63 136 136 82 18 54 68 92 264 97 192 75 169 97	6 40 41	44. 9 47. 2 41. 1 45. 4 42. 0 44. 8 44. 0 46. 1 44. 9 43. 0 *44. 9 *46. 8 *44. 9 *44. 8	-6.5 -3.2 -4.5 -1.2 -5.0 -5.2 -2.8	72 70 71 68 71 69 70 70 74 70 69 **72 **72 **70 68 69 74	† 1 11 6 11 11 11 11 11 11 11 11 11 11 11	28 24 29 20 22 20 23 23 21 *24 *27 *27 22 21 22 20 22 21 22 20	17 25. 18. †21 †22 25 18 †21 24 24 †21 †22 24 †21 †21 †22 24 †21 †21 †22 24 †21 †21 †22 †21 †22 †23 †24 †24 †24 †24 †25 †26 †27 †27 †28 †28 †28 †28 †28 †28 †28 †28 †28 †28	°40 36 39	\$.26 2.05 4.66 5.25 3.53 5.00 5.49 4.70 4.79 2.51 5.71 4.39 4.97 3.68 2.12 2.26 3.74 4.00	-0.67 +1.48 +2.01 +0.72 +1.83 +2.43 +1.78 -1.46 -1.67 -0.74 -0.87 -1.02 +0.50	1. 03 0. 65 0. 96 0. 80 1. 40 1. 61 1. 62 1. 39 1. 50 0. 75 1. 62 1. 70 1. 56 0. 43 1. 10 2. 02 0. 64 1. 43 1. 40 1. 50 1. 50		11 10 8 5 4 12 11	11 13 9 19 13 12 12 15 10 10 10 9 12 15 10	9 12 8 10 4 7 6	11 76 12 14 10 7 8 11 18 16 18 12-	w. n. w. nw. ine.	Mrs., R. L. Fripp., A. Mrs. Marfella S. Matthews I. S. Weather Birenu. Rohand D. Towe. Perry C. Quantiebamm. D. C. McCall. Win, B., filleable. Henry C. Savage. II. E. (filbert Pee Dee Exportment Sta. Majner, B. Roberti - Brooklyn Cooperage Co Mrs. Ellen Scott. Alden F. Schell. Kora R. Davis U. S. Fisheries Station Miss R.P., Ruyenel. Floyd C. Martin. E. D. Fields, Jr Clemson Coast Exp. Sta Sunter Water Dept. W. Haungdon Raussey W. C. Hutson.
Western Portion,  Aiken Anderson Bhiris Cesars Hend 3 Calbonn Falls.	Anderson Fairfield Greenville	764 293 3118	37 25 6 31	31.4	-3.5 -5.4	. 68	† 1 †10	11	20 24 23	36 30 35	4. 34 4. 08 5. 93 3. 36	-0.44 +0.42	1. 28 0. 87 3. 09 1. 70	9.	0 7		5 3	12	w. w.	11. H. Russell. Sarah L. Owens Cresar's Head—P. Mtn. Co

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Spartanburg ....

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Edgelield .....
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Cherokee .....
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Greenwood.....

Spartanburg ...
Edgefield ...
Oconee ...
Fairfield ...
York ...

Division means and extremes ......

Section means and extremes.....

Columbia .....

Crescent.
Due West
Edgefield
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Gaston Shouls 11.
Greenville.

Greenwood Heath Springs Kershaw Landrum Laurens

Little Monntain..... Newberry Pelzer Saluda Sautnek

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The departmes from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the tubb indicate number of days missing; for example, by represents two days missing, etc.

† Also on other dates. If Received too late to be included in means and such as the representance data are from observed readings of the day, buth; means are considered produced from observed readings. If Post-ordines addresses of these parts of the object of the constant of the object of the constant of the object

### Daily Precipitation for December, 1930.

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except as otherwise indicated, observations are generally made late in the afternoon, near supset, and precipitation recorded is for the 24 hours ending at the time of recruition. In Precipitation measured in the morning; amount them recruited is for the preceding 24 hours, "at Precipitation in the morning; amount to the precipitation in the most of them to the precipitation in the headed in the next following measurement. 24 hours are the falls not recorded. T. Trace, or less than 10 in the fall in the precipitation in the fine of the fall in the precipitation in the fall in the precipi

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Reference letters (\*, b, \*), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

% Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 1 27 31 -900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

. XXXIII. COLUMBIA, S. C., YEAR, 1930.

No. 13.

### GENERAL SUMMARY.

The outstanding feature of the year 1930 was rather perent semi-drought during the most important crop developperiod from the close of January to early September, when accumulated deficiencies in precipitation reached an unal total of 10.70 inches. But two previous years since the eral record began in 1887 have had lower rainfall averages n in 1930. The deaths and property damage by violent ms was less than for several years. February was unusually d, and June much too cool, and persistent low temperatures ethe rule during October, November, and December. On the ble, however, the mean annual temperature was only htly below normal. Two small tornadoes occurred in June, the deaths by lightning were one in May, two in July, and ee in August, with one person injured in May. Flood nage in several streams early in the year was negligible. general damage from storm stress approximated \$187,850. The growing season opened about April 1 with plowing l advanced, but wild vegetation was rather backward. The atively light rainfall and high temperatures during May reded germination and delayed tobacco transplanting, which ded in the more favored sections; commercial white pota-the higher elevations. s and cucumbers were moving rapidly as the month closed. June, crops improved generally, though the rainfall was deent; the first cotton bloom was noted at Syracuse on the ring the first week; tobacco curing was active toward the nth's close. In July, the continued lack of sufficient rainbecame evident in the Piedmont; the first open cotton boll s picked at Barnwell on the 14th, or 15 days earlier than mal; the white potato harvest was completed during the nth, and fruits and vegetables of all kinds were marketed in son. All crops made favorable progress during August, until ville on March 7. last week, when drought conditions became acute; the first ton bale was ginned at Ehrhardt on the 4th, or 7 days earlier an normal; tobacco curing ended during the last week. Sep- 96, and 95 days, respectively nber, though decidedly warm, with generally light rainfall the Piedmont, was favorable for crops. October and No. noon, 56%, and 8 p.m., 65% mber were considerably colder than the average. The words December retarded germination of small grains and growth the west at Greenville on April 7. winter truck crops.

The last general spring killing frosts occurred about March 3 to 6 in the eastern and during the last week in March in the western portion; the first in autumn occurred during the last week of October throughout the State. The average latest spring killing frost date for 1930 was March 16, or 6 days earlier than normal, and the average earliest autumnal killing frost date was October 30, or 11 days earlier than normal. The growing season was 228 daye in length, or 5 days shorter than

The mean annual temperature was 62.4°, or 0.5° below The warmest month was July, with a mean of 81.9°; normal. the coolest month, December, with a mean of 41.5°. highest annual mean at any station was 65.9° at Charleston and Beaufort (near); lowest annual mean, 58.6° at Spartanburg. The highest annual temperature was 108° at Calhoun Falls on July 12; lowest annual temperature, 6° above zero at Caesar's Head on November 27.

Seasonal temperatures, with departures from the 44-year normals: Winter, 46.7; +0.2; spring, 62.1; -0.6; sum-

mer, 78.2; -0.5; autumn, 62.9; -1.0. The average annual precipitation was 40.15 inches, or 7.93 inches below normal. The greatest annual amount at any station was 55.82 inches at Ferguson; least annual amount, 31.39 inches at Cherokee (near.) The greatest monthly amount at any station was 13.60 inches at Beaufort (near) in September; least monthly amount, 0.22 inch at Marion in February. The average number of rainy days was 92; greatest number at any station, 117 at Columbia; least number, 62 at Edgefield. Average annual snowfall, 5.8 inches. Snow flurries occurred at a few stations on January 18 and 23, and glaze and sleet or eds were generally green by the 14th. Cotton planting was snow were quite general on the 29th, 30th, and 31st. Scattered shed by May 1, and corn and truck planting was general. snow flurries occurred at a few up-State stations on February 15. A general glaze and sleet and snow storm prevailed on December 16 and 17, with thin ice on exposed objects, with sleet ranging from 1 to 4 inches in depth in the central counan early in the month, but sweet potato transplanting pro-ties, and with snowfall ranging from Traces to 14.4 inches in

During the growing season, March to September, inclusive, the total precipitation was 24.20 inches, or 7.10 inches below normal.

Seasonal precipitation, with departures from 44-year noror 2 days earlier than normal; the cereal harvests ended mals: Winter, 9.42 inches, -2.01 inches; spring, 8.00 inches, 2.65 inches; summer, 11.62 inches, -4.84 inches; autumn, 11.11 inches, +1.57 inches.

Moderate freshets, with little or no damage, occurred in several streams only in the early part of the year.

The average annual atmospheric pressure was inches. The highest pressure was 30.79 inches at Due West on November 29; the lowest pressure was 29.27 inches at Green-

The average annual sunshine was 63% of the possible amount. The average annual number of clear days was 183; partly cloudy, 79, and cloudy, 103, as against normals of 174,

The average annual relative humidity at 8 a.m. was 79%;

The prevailing wind was from the northeast. The average annual wind velocity was 6.6 miles per hour. The highest re generally bare by November 18. The persistent cold dur- velocity for any 5-minute period was 48 miles per hour from

(CONTINUED ON PAGE 52.)

			Tempe	rature	(degre	es Fah	renhe	it).		Pi	eclpitat	lon (ln	ches).					y.	ou of	
Stations.	Countles.	Elevation, rect.	years. Annual mean.	Highest.	Date		Lowest.	Date.	Length of record, years.	Total for the year.	Greatest mouthly.	Month.	Least monthly.		otal snowfal	Number rainy days.	ءً ا ا	cloudy days.	days.  Prevailing direction	wind.
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Division means and  western portion.  Aiken	. Alken	527 764	67 6- 34 6	1.5 1	04 Ju	ly 9†	18 23 16	Jan. 24 Dec. 20	6 3 2	8 36.1 6 41.4	7 5.30 5 5.20 1 6.9	Sept Nov July	0.46	May Aug. Feb. Aug.	1.0 13.0 3.0 24.1	70 89 83 71	252 216	23 24 102	125	ne. w.
Blairs Cæsar's Head.  Calhoun Falls Camden Catawba Chappells	Abbeville Kershaw York Newberry	293 3118 508 222 562 402	14 6 52	9.1	68 Ju 00 Ju	aly 7 aly 12 aly 7t	6 19 19	Nov. 2' Dec. 2: Nov. 2' Dec. 1	3 3 8† 8 2 2	7 51.8 2 32.5 2 37.1 5 38.4 26 34.7 3 31.5	7 4.7 3 4.9 3 5.3 7 5.6	July Jan Nov July	1.02 0.87 0.76 0.64	Feb. Feb. Apr. Aug.	2.0 2.0 9.0 1 3 22.0	70 99 83 101 71	178	68	63 109	s. sw.
Cherokee (near) Chester Clemson College Columbia Crescent Due West Edgefield Gaston Shoalsti	Chester	487 850 351 630 711	36 44	3.5	104 Ju	aly 12 aly 12 uly 12 uly 12	11 24	Dec. 1 Dec. 3	8	39 40.1 14 35.3 17 32.1 18 37. 28 35.	51 6.4 48 7.0 32 5.1 11 5.	7 July 3 Nov 3 Nov 16 Nov	0.65 1.66 7.0.78 7.0.55 7.0.77	Feb. Aug. Apr. Oct.	19. 6 0. 6 16. 0 3. 4 2. 0 19. 0	95 117 87 108 62 86	145 132 124	111 128	120	sw.
Greenville	Greenville Greenwood Lancaster Kershaw Spartanburg	989 671 568 500 1063 589	47 29 15 16 13	61.2 61.3 60.9 62.6 60.8 62.3	106 J 100 J 107 J	uly 18 uly 13 uly 9† uly 12 uly 12 uly 12 uly 9	18 21 19 17 14 12 18		17 28 18 18	47 40. 47 36. 29 37. 15 38. 16 35. 13 32. 89 41.	91 6. 34 5. 19 5. 58 6. 51 5. 79 6.	07 Sep 89 Jun 46 Dec 44 No 50 No 97 Ser	t. 0.95 le 1.06 c. 0.78 v. 1.06 v. 0.99 ot. 0.89	Feb. Feb. Feb. Feb. Feb. Feb.	2.6 2.5 25.7 12.7 1.8	88 68 87 77 92 87 102	180 129 210 197 220	44 30 97 115	131 206 58 53 83 100	W. W. SW S. W.
Laurens Little Mountaln Newberry Pelzer Saluda Santuck Spartanburg	Newberry Newberry Anderson Saluda Union	711 502 850 536 512 875	27 29 38 54	62.1 62.5 60.4 58.6	106 J	July 12 July 13 July 9 July 12	19 12 10	Dec. Dec. Dee.	20 17 24 20	27   42- 27   38- 29   41- 38   37- 52   34	.33 6- .04 5. .64 9- .10 6. .91 5.	23 Jan 24 Ju 11 Sen 25 No 55 No .75 Ja	ne 1.2 ot. 0.6 ov. 0.6 ov. 0.7	Feb Feb Feb Oet	16.0 1.0 8.4 18.5	99 98 64	181 262	107 25	77 78 81 82	W.
Treuton Walhalla Winnsboro Winthrop College Division means a	Edgefield	620 1061 545 690	36 29 37 31	67. 0 59. 7 62. 0 61. 5 61. 2	106 105 103 108	July 12 July 12 July 12 June 24 July 12 July 13	20	Dec.	18 30 23 27	31 42 37 36 31 36	.91 6 .58 4 .25 5	. 56 Mi . 39 No . 92 No . 11 Se	xy   1. !	9 Au 29 Au	g. 9.	1 8	3 143 8 159	129 152 0 87	94 54 98	sw s. ne

† On other dates also.

\*\* Temperature data are from observed readings of the dry bulb; means are computed from observed readings.

\*\* Postoffice addresses of these stations are as follows: Of Gaston Shoals, Blacksburg; of Winthrop College, Rock Hül.

EAR, 1930				CL	LML	1101	,OG	ICA	1, 1)	AIA		5001		CAR	017	114.24	EISC	7110.	. `							
			Mon	thly s	nd	Annu	al P	recipi	tatlo	n for	the '	Year	1930	, wit	h De	parti	res i	-		1		-		-		
	Janu	ary.	Febr	uary.	Ma	reh.	Ap	rii.	M	ay.	Ju	ne.	Jul	y.	Aug	ust.	Septe	mber.	Octo	ber.	Noven	nber.	Decer	nber.	Ann	ual.
Stations.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
ASCRIN PORTION.  3. 3 + 0.6															- 2.71											
arleston	5. 90 2. 87 4. 18	+2.79 -0.65 +1.06	0. 90 0. 81 1. 16	-3.18 -2.17 -2.91	6. 27 4. 17 2. 30	+2.96 +1.15 -1.24	2, 93 2, 60 2, 13	-0.31 +0.07 -0.92	1. 27 0. 76 3. 24	-2.41 -2.24 -0.37	5. 15 6. 59 2. 89	-0.26 +2.00 -2.25	7.50 6.09 2.78	+2.00 -0.80 -3.32	1.75	-3.83 -4.78 -3.98	3. 22 5. 77	-1.31 +2.21	0.79 2.98	-2.48 +0.22	1.28	+1.16	2.05	-0.67 +1.48	32, 43 37, 78	+ 2.79 - 8.86
nwayrlingtoningham	4. 40 4. 50 5. 52 7. 50	+0.89 +1.58 +2.02 +3.91	0.88 0.57 0.76 0.76	-3. 43 -3. 04 -3. 95 -3. 04	4. 08 0. 68 3. 07 6. 82	+0. 52 -2. 31 -0. 72 +3. 08	1, 52 1, 98 1, 52 2, 94	-1.60 -1.31 -1.86 -0.02	0.72 1.54 1.96 1.24	+2, 98 -2, 12 -1, 69 -2, 83	5.78 3.69 4.14 5.07	+0.68 -1.75 -1.79 -0.58	5.84 3.33 4.57 8.20	-0.87 2.89 -1.55 +1.56	3. 25 3. 35 4. 20 7. 59	-1.70 -1.61 +0.78	6. 07 4. 12 5. 45	+2.07 -0.04 +1.57	4.24 4.72 2.74	+1.30 +1.79 -0.22	2.92 2.64 2.52	+0.59	3.58 5.00 5.49	+0.72 +1.83 +2.43	286, 85 42, 22 55, 82	- 4.46 - 8.03 - 6.97 + 6.08
orence 1orence 2orence 2orgetownorgetownorgstreeorg	3. 72 4. 84 4. 21 2.52 5. 53	+0.69 +1.81 +1.75 +0.82 +2.17	0.69 0.80 1.56 0.59 0.84	-3.40 -3.29 -2.90 -3.44 -3.00	1. 91 2. 26 4. 39 4. 24 5. 35	$ \begin{array}{r} -1.41 \\ -1.06 \\ +0.59 \\ +0.77 \\ +1.96 \end{array} $	3.03 2.82 7.20 1.24 1.78	+0.10 $-0.11$ $+4.58$ $-2.06$ $-1.07$	1.72 1.42 1.34 1.65 0.98	-2, 30 -2, 60 -3, 38 -2, 04 -2, 39	3.71 3.56 3.86 7.61 5.90	-1.56 -1.21 -3.07 +1.91 +0.72	3.89 2.94 8.45 3.83 4.73	-2. 49 -2. 94 +1. 13 -4. 07 -1. 85	3, 77 3, 61 2, 34 7, 66 6, 68	-1.57 -1.78 -2.91 +0.94 +0.55	5.15 4.85 10.56 6.70 4.89	+1.08 +0.28 +6.73 +2.29 +0.72	3. 10 3. 97 0. 90 1. 62 2. 55	+0.13 +1.00 -1.58 -1.68 -0 21	2.93 3.37 3.96 3.28 2.89	+0.88 +1.32 +1.47 +0.95 +0.81	4.70 4.79 2.51 *4.86 5.71	+1.78 -1.87 -1.46 +0.74 -1.67	37, F2 38, 78 51, 21 1†4530 47, 78	- 8.07 - 7.16 + 1.95 - 6.49 + 1.08
irlon irs Bluffsugeburg iopolis nini	6. 54 5. 74 5. 78 3. 65 6. 43	+2, 40 +0, 53 +2, 66	0. 22 0. 87 0. 80 1. 80 2. 10	-2.65 -1.71 -1.44	2. 46 2. 65 5. 80 4. 63 3. 56	+2.22 +1.05 +0.18	1.76 1.73 3.08 2.50 3.29	+1.27 -0.51 +0.24	0. 50 0. 78 1.54 2. 80 0. 90	-1.95 -0.89 -3.49	3. 44 5.31 5. 80 7. 67 4. 66	+1.31 +1.98 +0.34	4. 81 4. 67 5. 36 5. 85 5. 10	-1.81 -0.94 -2.76	3.79 5.97 3.05 2.48 1.39	-1.87 -4.40 -3.68	3.86 2.70 5.97 8.05 5.09	+2.30 +3.39 +1.31	3.37 3.35 3.01 1.90 2.01	+0.99 -1.08 -0.42	2, 99 2, 13 2, 91 3, 90 4, 44	+1.41 +1.51 +2.73	4. 39 4. 97 3. 68 2. 12 3. 2. 26	-0.74 -0.87 -1.02	38.13 40.87 46.78 47.35 41.23	+ 3.36 - 1.94 - 5,30
ciety Hill mmerville mter edgefield massee	3. 08	-0.09	1.02	-3, 35 -2, 90 -2, 95 -1, 96	2.55	-0.77	1.67	-1.79	2.87	-0.71	2.27	-3.05 -1.27	4.84 8.14 5.27	-1.71 +1.18	2. 19 2. 15 0. 93	-3.55 -4.95	7. 34 8. 53 5. 36	+2.18 +3.83	5. 07 1. 30 2. 79	+2.19 -2.03	3. 69 1. 95 1. 75	+1.51	3.74 3.34 4.00	+0.50	40, 83 45, 61 38, 85	- 7.62 - 5 52 + 4.86
Division means and departures.				-2.99						-1.91	5. 00	-0.46	5.51	-0. 81	3, 30	-3.00	6.25	+2.14	2.65	-1, 23	2.97	+0.90	3.85	+0.77	43. £8	- 3.94
WESTERN PORTION.														0.00			E 00	+1.04	0.50	±0.08	2 61	±1.0°	2 04	_1.60	32 05	- 3, 43
ken ulerson airs sars Head	5.08 4.69 5.24 4.11	+1.39 +0.26 +1.46	0.52 0.80 0.80 3.93	-3.48 -4.36 -3.27	3. 13 3. 15 3. 02 5. 21	-0.82 -1.37 -0.68	1.55 2.53 1.97 2.68	-1.65 -0.96 -0.87	0.46 4.45 2.64 3.68	-3. 12 +1.14 -0. 51	2.58 3.94 3.81 4.89	+0.34 -0.16	4. 04 3. 51 6. 92 2. 06	-0.88 -1.47 +1.88	0. 61 1. 99 1. 46	-4.29 -3.19	3.85 7.34	-1. 42 +0.79	1.17 2.74 1.85	-1.55 +0.25	5. 25 4.35 8. 67	+2.61	4. 34 4. 08 5. 93	-0.44 +0.42	36. 15 41.41 51. 81	- 3.43 -11.31 - 1.70
lhonn Falls mden tawba nappells	3. 28 4. 91 4. 23 4. 81	-0.96 +1.38 +0.43 +1.14	1, 02 0, 87 0, 98 1, 05	-4.34 -3.04 -3.56 -3.08	3. 22 2. 72 2. 53 2. 31	-1 64 -0 97 -1.58 -1.53	1.88 2.42 0.76 0.96	-1.74 -0.69 -2.47 -1.98	3. 41 2. 09 2. 94 2. 62	-0, 57 -1, 12 -0, 84 -0, 42	2.31 4.21 3.79 2.69	-1,60 -0,31 -0,59 -0,86	4. 72 3. 99 4. 99 5. 65	-0.44 -1.32 -1.10 +0.84	1. 04 1. 48 2. 87 0. 64	-3.52 -3.85 -2.03 -3.49	2.64 4.37 4.40 3.66	-1.10 +0.55 +0.85 +0.32	1. 20 2.10 1. 51 1. 74	-1.60 -0.51 -1.81 -0.77	4, 54 3, 99 5, 33 5, 42	+2.25 +1.66 +2.95 +3.24	3. 36 3. 98 4. 10 4. 3. 22	-1.15 +0.55 +0.27 -1.10	32.57 37.13 38.43 34.77	-16.44 - 7.59 - 9.49 - 7.69
erokee (near)esteremson Collegeolumbia.escent																										
ne West	3.05	-0.75	0.92	4.24	2.96	-1.44	1.30	-0.93	2.31	-1.54	2.59	-1.15	6. 47	+1.89	0.78	-3.25	2. 15	-1.30	0.81	-1.02	5.53	+3.5	3.45	-1.20	32.32	-11. 42 - 6. 13 -13. 41 -13. 15
eeuwood ath Springs rshaw ndrum urens	3. 20 3. 58 2. 51 3. 68 3. 49	-0.81 -0.16 -1.89 -2.99	1. 07 1. 06 0.78 1. 05	-3.69 -2.84 -2.96 -4.00	2.55 2.51 2.52 2.60 3.12	1.57 1.09 0.84 2.88 0.81	1, 28 1, 40 1, 62 2, 30 1, 22	-1.84 -1.85 -2.00 -2.69	3.55 1.65 4.36 2.55 2.98	2 -0.22 -1.58 +0.94 -3.88 -0.56	3.64 5.89 4.57 3.90	-0.64 +0.72 -0.61 -0.96	5. 10 3.43 4. 10 2. 10 3.59	-0.11 -1.58 -2.20 -5.40 -1.33	0.95 4.01 2.38 2.79	-4.09 -1.49 -1.69 -1.89 -3.49	5 6.07 3 4.23 9 4.24 5 1.51 2 1.70	+2.64 +1.10 +2.18 -2.95 -1.57	1.02 1.92 1.97 2.52 1.06	-1.81 -0.60 -0.14 -1.79 -1.04	5. 16 4. 62 3. 68 6. 44 5. 50	+2.50 +2.40 +1.70 +3.10 +2.70	3.40 6 3.07 9 5.46 6 4.16 6 3.84	-0.88 -0.53 +2.44 -0.71 +0.89	5 36, 91 3 37, 34 4 38, 19 1 35, 58 9 32, 51	-10.55 - 7.38 - 5.00 -26.38 -16.76
tle Monntain wberry łzer lnda ntuck	4. 86 6. 23 4. 86 6. 10 3. 94	+1.25 +2.17 +0.08 +2.42 0.00	0.80 0.63 1.22 0.66 0.64	-3.60 -3.71 -3.73 -3.87 -4.31	3, 40 2, 95 3, 24 3, 20 3, 11	-0.26 -0.86 -1.51 -1.01 -1.27	1. 65 1. 19 2. 06 *1. 11 1.10	-1.71 -1.99 -1.96 -1.89 -2.22	2. 49 3. 3. 3. 18 *2. 6 2. 65	-0.66 -0.39 -1.03 -0.05 -0.68	3, 37 4, 34 5, 24 *3, 53 4, 08	-0.85 +0.21 +1.35 -0.77 +0.21	4.12 5.02 3.02 3.96 5.88	-0.66 -0.36 -2.55 -1.22 +0.75	2, 53 2, 50 1,80 0, 86 2, 66	-2. 4 -2. 5 -2. 5 -4. 10 -2. 9	4 6.97 5 4.88 5 1.95 0 9.11 5 2.37	+3.84 +1.61 -1.66 +5.80 -0.85	2.81 2.61 1.32 2.50 1.43	0, 00 +0, 11 -2, 10 -0, 28 -1, 68	5. 19 6. 03 5. 24 4. 40 6. 25	+2.8 +3.4 +2.4 +1.9 +3.4	3 3.60 9 2.61 8 4.91 2 3.60 3 3.02	+0.30 +1.68 +0.43 -0.30 -1.05	41.79 8 42.33 3 38.04 0 †4164 7 37.10	- 1.62 - 3.11 -13.64 - 3.35 -10.64
artanburg enton slballa nnsboro nthrop College																										
Division means and departures. Section means and departures.	4.29	+0.59	1. 13	-3.48	3.06	-1.30	1.65	-1.62	8.09	-0.30	3.97	-0.64	4.32	-1.03	1.77	-3.6	3.72	-0.16	1.74	-1.25	5. 25	+2.7	4 3.86	<b>-0.4</b>	2 37. 85	-10.60 - 7.93

The departures from the normal precipitation are computed only for such stations as have ten or more years of record. \*Interpolated. †Partly interpolated.

Monthly and Annual Mean Temperatures for the Year 1930, with Departures from the Normal

						T			~~~		Jun	.	Ju	ly.	Aug	ust.	Septer	nber	Octo	ber.	Nove	mber	Decen	nber.	Anni	ıal.
	Janu	ary.	Febru	ary.	Marc	ch.	Apr	11.	Мау		- Jun										. 1		. 1		1	
Stations.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature	Departure.	Temperature	Departure.
EASTERN PORTION. Beaufort (near) Blackville Charleston	51. 2 47. 0 49. 6	+2.8 +1.3 +3.1	54.5 55.7 51.8	+4.0 +6.0 +3.3 +6.4 +6.0	54.0	-2.6	65.1	+2.3	75.0 74.8 75.0 71.9	+3.2	75.8	-1.3	83.0	+3.	77.8	-1.	78.7 78.8 80.2 77.2 1 79.2 3 77.2	+4.4	61.8	-3.0 -3.7	53.7 56.0 50.0 53.3 51.4	-0.9 -1.0	41.9 47.2 41.1 45.4 42.0	-3.2 -4.5 -3.3 -2.9 -3.8	64.7 65.9 62.1 64.4 62.5	$ \begin{array}{c} -0.6 \\ 0.0 \\ -0.1 \\ -0.1 \\ -0.2 \end{array} $
Conway Darlington Ferguson Florence 1 Garnett.	40.0	+0.7 $+2.4$	51.4 52.8	+5.4 +4.6 +6.6 +1.0	51.9	-3.9	63.7	+1.8 +1.3 +1.7 -0.4	78. 3 74 4	+2.4	76.6	-0.7	82.9	+3.	1 78.4	-i.	79.6	+6.4 +2.6		-2.8 -5.0	53.2	-2.	9 44.0 8 46.1	-1.6 -6.5	64.0	+0.7
Georgetown Kingstree Marion Orangeburg Pinopolis	49.0 50.0 47.4 49.8 49.6	+2.2 +2.2 +1.8	54. 2 52. 2 54. 4 51. 9	+3.6 +2.1	54.0 54.0 54.4 54.2	-2.9 -3.2 -2.6	65.2 64.4 66.5	+1.9	74.0 •73.2 74.0 73.8	+2.4 +3.7 +3.8 +1.5	76.0 76.2 76.4 76.8	-2.2 +0.6	83. 82. 82. 83. 82. 83. 83.	3 +3. 3 +2. 3 +5. 6 +3.	76.9 78.3 9	3 -1.	78.6 79.2 79.0 2 *77.9	+3. +4. +4.	62. 4 62. 6 62. 6	-3. 6 -1. 6	52. 6 53. 4 53. 6 6 48. 8	-1. +1. -3.	. 48.0 0 *44.9 3 *46.1 8 *40.1	-4. -1. 2 -5.	64.7	4 +0.4 7 +0.9 6 -0.3 6 -0.1
Society Hill Summerville Sumter Wedgefield Yemassee	46.6	+0.5	51.8	+3.5	53.6	-2.0	64.4	+1.8	72.1	+1.0	-6 4	-2	4 83	1 +2.	3 78.	4 -1.	5 79.2	+5.	61.6	-4.	0 54.0	-1.	8 45.	4 -2.	8 64.	9 +0.2
Division means and departures.  WESTERN PORTION. Aiken Anderson.	50.2	+4.	0 55.5	+6.3	52.6	-3.0	65. 8	+2.5	74.8	+2.0 +0.	6 76.4 6 74.8	-1. -1.	4 82. 2 81.	8 +2. 4 +1.	7 78. 9 77.	4 -0. 8 -3.	5 77.6 6 76.1	+3.	0 62. 9 60.	7 2 2 -2.	2 53. 9 49.	4 -0.	9 44.	1 -3.	£ 64.	
Calhoun Falls	45. 4		. 51.6 . 48.6	3 +1	49.5	-5. 1	63.5	-0.5	72.2	+2.	75.4	-2.	5 81.	2 +1	0 76	7 -2.	5 76.	+2.	6 59.	8 -3.	1 50.	7	*36.	2	59.	1
Chester. Clemson College Columbia Due West. Greenville	46.4	+1.	1 49. 0 53. 5 50.	8 +6.	1 48.6	-4.3 -3. -6.	65. 65.	5 +2. 6 +1.	2 73.8 7 71.3	+1.	9 75.9 9 75.	2. 1.	2 82 6 81	4 +1	.5 78. .2 77.	$\begin{bmatrix} 0 & -1 \\ 5 & -1 \\ .6 & -1 \\ .8 & -1 \end{bmatrix}$	.6 78. .1 76. .2 75. .5 76.	0 +3. 0 +2. 3 +4 7 +3	5 61. 3 60. 7 60. 4 60.	3 -3.	1 52.	0 -2 -3	. f 39	5 -4 -6	2 61.	$\begin{array}{c c}  & -0.5 \\  & -0.5 \\  & 2 \\  & -0.3 \\ \end{array}$
Green wood	45. 45. 47. 43.	+2. +1. +1. +3. +1.	8 49.	0 +6. 0 +6. 6 +4. 0 +3.	5 49.	2 -2.	4 62. 8 •63.	7 +2. 0 +2.	7 70.3	2 +3.	6 74.	3 -1	. 3 582	.6 +	1.1 *78	.0 +0	0.2 77.	3 +3	.5 60	. 8 -1	. 6 49	.8 -6	0.7 46	.7 =	1.5 62	$\begin{array}{c} .6 \\ .8 \\ +0.5 \\ .3 \\ -0.5 \end{array}$
Laurens Little Mountain Newberry Saluda Santuck	46. 46.	8 +0. 4 +1 1 +1 4 +2	.4 51. .4 51. .1 50. .4 47.	7 +5. 1 +5. 4 +5. 1 +3. 7 +4.	0 47. 4 50. 2 450. 0 48.	$\begin{bmatrix} -5 \\ 7 \\ -5 \\ 2 \end{bmatrix}$	0 58.	8 -1.	7 70.				. 85	.2 +	3. 1 77	.7 -1	1.6 76	5 +3	. 1 60 . 5	.2 -8	1.1 48	.4 -	2. 6 28	0. 6 0. 8 0. 8	5.4 60	0.4 -0.8
Spartan burg Trenton Walhalla Winnsboro Winthrop College	48. 44. 44.	4 +1 4 +2 8 +0 9 +1	. 8 54. . 1 47. . 8 50. 5 50.	2 +5 8 +8 9 +4 3 +3 7 +6	.1 51. .1 47. .2 48. .6 49.	8 -4. 9 -3. 9 -4. 4 -4.	4 66. 6 61. 9 °64. 2 62.	4 +3 2 +2 2 +4 4 +1	.9 72. .5 71.	1 +1 1 +1 0 +1 6 +2	.3 76. .3 78. .4 676. .3 75.	0 -2 0 -2 1 + 1 -4	2.5 8: 2.2 8: 1.5 8: 1.2 8	2.2 + 0.2 + 2.4 + 1.2 +	2.0 70 3.1 70 2.8 77 2.0 77	5.5 — 5.9 — 7.6 — 6.7 —	0.9 78 1 6 74 0.6 77 1.6 76	.1 +:	2.8 62 2.8 58 4.2 60 3.4 59	3.2	2.2 55 2.4 46 2.4 56 2.6 45	3.6 - 3.6 - 3.4 - 3.4 -	1. 7 4: 4. 0 3: 0. 5 3 2. 3 3	8.4 - 9.6 - 9.4 -	5. 6 55 5. 7 65 4. 4 6	8.6 -1.9 7.0 +5.0 9.7 +0.0 2.0 +0.1 1.5 +0.1 1.2 -0.
Division means an departures. Section means an departures.	d 45.	3 +1 9 +1	. 4 51	.6 +4	. 2 50.	9 -3	9 63	. 4 +1	. 1 72.	0 +1	1.1 75	1 -	2.3 8	1.9 +	2.1	7.5	1.3 77	.3 +	2.7 6					1.5 -		

Reference letters (\*, b, c), appearing in the table indicate number of days missing: For example, b represents two days missing, etc.

### WEATHER BY MONTHS. (CONTINUED FROM PAGE 49.)

January. - The month was relatively mild, with precipitation considerably above the average. Moderate freshets occurred in several streams of the Santee and Pee Dee River Systems. Snow flurries occurred at a few northern stations on the 18th and 23rd, and a general glaze, sleet, and snow storm oc- 25th. curred on the 29th, 30th, and the 31st, with snowfall up-State ranging from 0.1 to 11.7 inches.

February.—Remarkably mild and dry weather prevailed generally, with February maximum temperature records equaled or broken at many stations, and the record for average number of clear days broken. Moderate freshets occurred at several points in the Santee and Pee Dee River Systems. Scattered snow flurries occurred up-State on the 15th.

cipitation somewhat below normal. The Santee River con- mum temperature records were broken at several station March. - The temperature averaged decidely below and pre-

tinued in moderate flood at intervals. Late spring freezes were quite general during the first week and in the upper sections at the close of the month.

April.—Precipitation averaged considerably above normal and the mean temperature was above. Freezing temperature occurred at several up-State stations on the 1st, 9th, 24th, and

May.—The month was somewhat warmer than usual, and precipitation was considerably below normal. One person wa killed by lightning, and one injured. Damage by lightnin approximated \$3,500.

June .- Two tornadoes occurred during the month. Damag by storm stress approximated \$105,906. The month wa unusually cool, and precipitation somewhat less than norma

July.-Remarkably warm weather prevailed, and max

The rainfall was considerably below normal. Deaths by lightning, 2. Damage by lightning approximated \$16,000.

August.—Unusually cool weather prevailed, with record breaking minimum temperatures at many stations on the 23rd. The deficiency in rainfall continued, and the August total was less than half the normal. Deaths by lightning, 3. Damage by storm stress was estimated at 862,450.

September.—The first general break in semi-drought since January occurred during the month, with average precipitation somewhat above normal. The month was abnormally warm, with 20 days on which the daily mean temperatures were notably above normal. Violent storms were conspicuously absent.

October.—The mean temperature and average precipitation were much below normal. Killing frosts were quite general from the 19th to the 23d, extending to the northern coast by the 31st.

November.—Thermal conditions ranged generally below the monthly average, and precipitation was much above normal. Measurable snowfall occurred at Caesar's Head on the 4th and 26th. The line of freezing temperatures extended to the lower coast by the 27th.

December.—The year closed with unusually cold weather, December having a mean temperature much below the averages of January and February and being far down in the group of cold winter months. Precipitation was somewhat above normal. A general glaze, sleet, and snow storm prevailed on the 16th and 17th, with thin ice on exposed objects in most sections, with sleet depths of 1 to 4 inches in the central counties, and with snowfall of Traces to 14.4 inches in the higher elevations; sleet and snow remained on the ground an unusual length of time incident to persistent low temperatures.

COMPARATIVE DATA FOR SOUTH CAROLINA.

	1			ALIA I	OR SU	OTH	AROL	INA.	
	1	'emperatu	re.	Preci	ipitation	Ave	rage nni days.	nber of	ing irec-
Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch	or more.	Partly Cloudy.	Cloudy.	Prevailing wind direc-
1887	61.8 62.0 64.4 63.0 62.4 63.5 63.9 63.9 63.3 63.2 62.8 63.2 61.1 62.6 62.6 63.3 63.3 63.3	110 108 102 102 104 104 104 105 106 106 107 107 106 107 107 107 107 107 107 107 107 107 107	5 13 13 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	43, 443, 455 44, 247, 252 47, 363 50, 494 44, 456 44, 456 44, 456 44, 456 44, 456 45, 51 46, 79 46, 79 47, 88 48, 89 48,	101 104 86	153 153 153 153 153 153 153 153 153 153	123 114 119 110 120 121 131 131 131 131 131 131 131 131 131	88 88 95 816 91 111 111 111 111 111 111 111 111 11	SW. 5 SW. 5
					90	174	96	95	SW.

<sup>†</sup> Also other directions.

MONTHLY AND ANNUAL CLIMATOLOGICAL DATA FOR SOUTH CAROLINA, YEAR 1930.

							,			100	٧.					
	Т	mper	atur	٥.	P	recipitu	tion.	Relativa	humidity.	possible sun-		Nn: of o	la y	r s.	3-01	find. 1p Ane.
Months.	Mean.	Departures.	Highest.	Lowest.	Average.	Departures.	Greatest local monthly amount.	1 1	Average-8 p. m.	Percentage of pos	Rainy.	Clear.	Partly Cloudy.	Cloudy.	Average hourly velocity.	Prevailing direction.
November	41.5	+1.4 +4.2 -3.9 +1.1 +1.1 -2.3 +2.1 -1.3 +2.9 -3.1 -2.9 -4.9	80 88 80 96 96 104 108 103 102 88 85 74	10 12 15 28 38 42 52 46 49 25 6 10	4, 46 1, 12 3, 40 2, 16 2, 44 4, 40 4, 80 2, 42 4, 58 2, 18 4, 35 3, 84	-3. 21 -0. 57 -0. 91 -1. 17 -0. 44	3. 93 6. 32 7. 20 6. 56 7. 67 9. 72 7. 66 13. 60 5. 07 8. 67 5. 93	85 6 74 5 75 5 73 4 76 5 78 5 80 5 88 6 77 5 81 6 82 6 79 56	60 57 66 60 8 56 2 63 6 66 4 67 1 66 1 76 0 63 3 70 3 67	76 59	111 4 100 5 7 100 9 5 100 5 7 7 9 7 9 7	20	5 4 6 6 10 7 8 7 10 5 6	188 44 100 66 77 99 77 79 97 713 111 103	6.8 8.8 7.2 6.4 6.0 5.5 5.2 6.0 7.1 7.0	ne. sw. w. sw. e. sw. ne. s. ne. ne.

\* From 43-year averages.

## KILLING FROST OR FREEZING TEMPERATURE DATES AND GROWING DAYS.

10	GR	OWING	DAYS.			
r-		1	930.		ages-all re	
1e c- s,	. Stations.	Last in spring.	First in antumn.	Last	First	No. of grow- ing days.
1-	Eastern Portion. Beaufort (near)	Meh. 4	Nov. 27	Feb. 2	7	
ıl	Blackville Charleston Cheraw	Mch. 5	Nov. 2 Nov. 27	Mch. 20 Feb. 20	Nov. 13 Dec. 11	283 238 294
_	Conway Darlington Ferguson	. Meh. 6	Oct. 26 Oct. 23	Mch. 3 Mch. 6 Mch. 29	Nov. 9 Nov. 4	219 231 220
	Florence No. 1. Garnett Georgetown	Meh. 5	Oct. 23 Oct. 31 Nov. 1	Mch. 26 Mch. 19 Mch. 10	Nov. 12 Nov. 13	227 238 248
on.	Kingstree Marion Orangeburg	Meh. 5	Oet, 26	Meh. 14 Meh. 15	Nov. 14	249 244
=	Society Hill	Meh. 4	Nov. 27 Nov. 2 Oct. 22	Mch. 18 Mch. 5 Mch. 24	Nov. 24 Nov. 8	241 264 229
	Summerville Sumter Wedgefield Yemassee	Mch. 6	Oct. 26 Oct. 23	Meh. 16 Meh. 20 Meh. 20	Nov. 18 Nov. 19	242 243 244
1	Normal Averages for 1929		Nov. 1	Mch. 15 Mch. 16	Nov. 14	243 243 237
1	Aiken Western Portion,					
	Anderson	Meh. 21	Nov. 25 Nov. 1 Oct. 19	Mch. 17 Meh. 25	Nov. 19 Nov. 9	247 229
	Calhoun Falls Camden Cherokee (near)	Mch. 31 Mch. 31	Nov. 1 Oct. 23 Oct. 22	Mch. 29 Mch. 13	Nov. 5 Nov. 14	221 246
	Chester Clemson College Columbia	Apr. 9	Oct. 21 Nov. 1	Apr. 1 Meh. 17	Nov. 2 Nov. 18	215 246
	Due West Greenville Greenwood	Meh. 5 Meh. 26 Meh. 6	Nov. 1 Nov. 7 Oct. 26	Meh. 22 Meh. 30	Nov. 16 Nov. 6	239 221
1	Heath Springs Kershaw Landrum	Meh. 23 Meh. 24	Oct. 22 Oct. 22 Oct. 22	Meh. 23 Meh. 27 Meh. 28	Nov. 9 Nov. 5 Nov. 7	231 223 224
1	Laurens Little Mountain Newberry	Apr. 1 Mch. 27 Mch. 31	Oet. 26 Nov. 1	Apr. 5 Apr. 2 Mch. 25	Oct. 30 Nov. 3 Nov. 10	208 215 230
100	saluda santuek partan burg	Mch. 6 Apr. 25	Oct. 26 Oct. 19	Mch. 30 Apr. 3 Apr. 5	Nov. 5 Oct. 27 Oct. 19	226 207 208
1	renton Valhalla Vinnsboro	Mch. 5 Apr. 9	Oct. 22 Nov. 1 Oct. 19	Mch. 20 Apr. 8	Nov. 2 Nov. 15 Oct. 28	217 240 203
1	Normal	Meh. 5 Meh. 27	Nov. 1 Oct. 22	Meh. 25 Meh. 28 Meh. 27	Nov. 13 Nov. 6 Nov. 7	233 223 225
	Averages for 1929 Section Normal		Oct. 27		Nov. 10	225 216 233
-	occurrences for 1929	Meh. 16	Oct. 30			226

Note.—Killing frost data in above table determined according to the following standard: Last or first clear or partly cloudy day with temperature of 32° or lower and last or first cloudy day with 31° or lower, but without rain, sleet or snow, in case of precipitation, then the next preceding or succeeding day with proper temperature and weather was used. The average number of growing days is the difference between the average spring and autumn killing frost dates.

### MAP SHOWING LOCATION OF OBSERVATION STATIONS.



- KEY TO SYMBOLS.
- Meteorological observations. (Regular Weather Bureau Stations, including Greenville.)
- Meteorological observations (Sub stations.)

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## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief,

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol. XXXIV. COLUMNIA, S. C., JANUARY, 1931.

### GENERAL SUMMARY.

Rather persistent cold during the first three weeks offset ture was considerably below normal. The average rainfall was the 11th, 14th, and 20th. also below normal.

Generally cold, raw weather prevailed until the closing week, when temperatures were considerably above normal, and hourly velocity, determined from 9 anemometer records, was all vegetation quickened, with hardy shrubbery budding. arrintained generally healthy condition. Plowing was not very active in the interior until the dry period at the close of the month, but white potato land preparations progressed satisfactorily in the coast districts. Cabbage and spinaeh shipments proceeded from the coast counties during most of the month. Much hog butchering was done.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 egular Weather Bureau stations in and surrounding the Sectia, was 30.12 inches. The highest pressure was 30.67 inches at Asheville, N. C., on the 15th, and in the Section proper, 30 65 inches at Due West on the same date; the lowest pressure vas 29.20 inches at Asheville, N. C., on the 5th, and in the Chappells, Columbia, Catawba, and Camden. Section proper, 29.27 inches at Greenville on the same date.

### TEMPERATURE.

The monthly mean for the Section, determined from reports of 38 stations, was 44.5°, or 1.0° below normal. The tighest temperature was 76° at Yemassee on the 31st. The ton. 18, 19; Due West, 12, 13; Greenville, 9, 19; Mars varm periods were on the 4th and 5th, 18th and 19th, and Bluff, 19, 28; Sumter, 4. fter the 23d, with daily mean temperatures 5° to 15° above normal. The lowest temperature was 10° at Clemson College n the 16th. The cold periods were on the 1st and 2d, from he 7th to the 16th, and from the 20th to the 22d, inclusive, with daily mean temperatures 5° to 15° below normal.

### HUMIDITY.

The mean relative humidity, determined from reports of 9egular Weather Bureau stations in and surrounding the Seeon, was as follows: 8 a.m., 79%; noon, 58%; 8 p. m., 62%. he highest percentages occurred in the northwestern counties, nd the lowest, in the central interior.

### PRECIPITATION.

The average for the Section, 52 stations reporting, was 59 inches, or 0.91 inch below normal. The amounts were irly well distributed in four periods. In much the greater part of the Section the monthly measurements were less than 3 inches, and in small areas of some northern counties the amounts were less than 2 inches. The greatest local monthly amount was 3.55 inches at Pinopolis; least local monthly amount, 1.43 inches at Darlington. The greatest amount during any 24 hours was 2.34 inches at Cherokee (near) on the 5th. The average number of rainy days was 12% below

Measurable snowfall of 0.2 to 4.0 inches occurred up-State the mild weather of the last week, and the average tempera- on the 8th and 14th, and sleet occurred in scattered sections on

### WIND.

The prevailing wind was from the west. The average 6.8 miles. The highest velocity for any 5-minute period was Winter cereals and hardy truck made very slow growth, but 39 miles per honr from the west at Savannah. Ga., on the 14th, and in the Section proper, 34 miles per hour from the southwest at Columbia and Greenville on the 5th.

### SUNSHINE AND CLOUDINESS.

The average monthly simshine, determined from 9 automatic records, was 195.8 hours, or 62% of the possible amount. The average number of clear days was 16; partly cloudy, 7, and cloudy, 8, as against normals of 13, 7, and 11 days, respectively.

### RIVER CONDITIONS.

The Santee River was in moderate flood at Rimini on the 21st and 22d, and at Ferguson from the 11th to the 25th, inclusive, except on two dates. Otherwise, moderate stages cccurred in the remaining streams, except rather low water at

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 26, 27, 31; Columbia, 26, 27; Greenville, 27. Solar: Charleston, 7; Columbia, 7; Due West, 16, 17; Greenville, 17, 19.

### ERRATA.

December, 1930,-Anderson, highest temperature and date, page 46, should be 66 on 1st. Summerville, highest temperature and date, page 46, should be 74 on 11th.

### MISCELLANEOUS DATA FOR JANUARY, 1931.

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Stations.	r, sea	Tem	perati	are,	ti	ripita- on, ches,	Wir 3-cup .		re	Mean elati midi	ve:	oi po-
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Stations.	Barometer level.	Меан.	Highest.	Lowest.	Total.	Greatest 24 hours.	our dock miles	Prevailing direction.	σġ	Noon.	S p. m.	Percontage sible suns
tremes V. 30 12 45.2 72 14 2.24 1.30 6.8 W. 79 58 62 62	Angusta, Ga. Charleston, S. C. Charlotte, N. C. Columbia, S. C. Due West, S. C. Greenville, S. C. Savannah, Ga. Wilmington, N. C.	30, 13 30, 13 30, 13 30, 13 30, 16 30, 69 30, 12	46, 5 49, 0 42, 4 46, 2 42, 8 44, 1 50, 8	71 72 67 70 68 67 72	23 30 26 24 19 24 28 24	2. 23 2. 87 2. 87 2. 41 2. 25 2. 55 2. 11	1.11 0.87 0.85 1.12 0.92 1.30 0.63 1.02	4. 4 8. 0 4. 5 5. 8 8. 0 6. 6 10 8 5. 3	NW. SW. W. SW. W.	59 77 78 78 76 74 76	66 59 54 54 55 64 69 52	64 68 58 56 64 61	62 64 64 64 66 86

### Climatological Data for January, 1931.

					Clim	atolog	rical	Data	for	Janu	lary,	1931.								
			record,	Т	'emper	ature, i	n degr	ees Fa	hr.	-	Precip	itation,	in inc	hes.	Num	ber	of da	ys.	stion	
Stations.	Counties.	Elevation, feet.	Length of rec years.	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	With precipition (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing direction or wind.	Observers.
Eastern Portion.							1								1					
Beaufort (near)33 Bhackville Churlestou	Barnwell	296 48	50 47 60 49	49. 1 47. 4 49. 0 43. 8	-2.4 -0.2 -0.9 -0.2	74 72 72 72 72	25 25 31 25	25 22 30 18	16 15 15 † 2	40 43 25 43	2. 47 2. 58 2. 37 2. 60	-0.87 -0.79 -0.65 -0.56	0, 80 0, 80 0, 87 0, 78	0 0 0 T.	6 6 9 9	21 14 14	2 12 7	8 5 10	e. w.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthe U. S. Weather Bureau Roland D. Powe.
Conway Darlington Ethngham Fergusoni‡	Horry	25 175 106	41 · 36 · 40 · 45	46. 5 44. 0 45. 0	-1.7 -1.5 -2.1	71 71 	25 25 †25	21 18	† 2 2	41 44 88	2. 39 1. 42 2. 48 3. 35	-1.39 -1.54 -1.05 -0.39	1. 08 0.60 0. 92 1. 57	T. 0 0	7 6 8 6	21 20	0 0 	::::	sw.	Perry C. Quattlebaum D. C. McCali. Wm. B. Gillespic Henry C. Savage
Florence 1	Hampton Georgetown	136 82	49 16 13 38 49	44. 2 47. 5 47. 2	-1.5 -2.8 -0.7	69 71 72	†27 †27	20	† 2 2	46  50  45	2.06 1.88 2.77	-0.91 -1.09 -0.31	1.74 0.93 1.50	T. 0 0	6 6 7	20 18 17 	7 8 11 	4 5 3 8	110. SW.	11. K. Gilbert. Pee Dee Experiment St. Muner B. Robert Brooklyn Cooperage C Mrs. Ellen Scott
Marion Mars Bluff Orangeburg Pinopolis Rimini	Marion Florence Orangeburg Berkeley	54	15 84	44. 0 46. 5 45. 1	-4.6 -2.9	72 70 68	†25 27 29	18 23 21	† 2 2 16	46	2.50 2.36 2.59 3.55 3.18	-0.88 +0.64 -0.44	1, 53 0, 99 1, 33 1, 20 0, 90	T. 0 0 0	4 7 7 7 6	17 15 19	7  2 0	7 14 12	sw.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station Miss E. P. Ravenel. Floyd C. Martin.
Society Hill	Darlington Dorchester Sumter	192 75 169	40 33 7 41	*43.0 45.9 45.9	-1. 1 -2. 5 -0. 3	*74 73 71	27 † 5	*16 20 19	† 2 † 2 † 2	*43 45 45 45	2.76 3.22 2.86	-0.43 +0.08 -0.73 +0.06	0.90 0.95 1.48	0 0 0 	8 7	21 15 18	2 2 6 	8 14 7 	w. w. sw.	E. D. Fields, Jr. Clemson Coast Exp. Str Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Vennssee Division means and		24		47. 6 46. 0	-1.1 -1.9	76	31	18	† 2	50	2.62	-0.63		T.	7	17	5	9	sw.	
Western Portion.																	2	7	nw.	Frank B McCox
Aiken Anderson Blairs Cæsars Head‡‡ Calhoun Falls Camden	Fairlield	293 3118 508	38 26 7 32	46. 6 43. 4 36. 2 43. 4	-0.8	73 69 65 72	31 †28 25 †25	20 19  13 19 17	15 15 15 † 2 † 2	28 45	2. 17 2. 16 2. 44 3. 42 2. 18 3. 21	-1.53 -1.98 -1.23 -1.80 -0.29	1. 05 0. 85 1. 50 0. 98	0.5	5 8 6 5	22 20 14 16	16	10 11 9	₩.	H. R. Russell Sarah L. Owens Cæsar's Head—P. Mtn. L. M. Parker Henry A. Brown.
Chappells. Cherokee (near). Clester Clester Clenson College	York	. 758 487 . 850	26 3 9 39	44.2	+1.3 +0.2	71 72 70	25 25 25 25	10 24	16	50	2.68 2.66 3.50 2.37 2.41	-1.02 -1.98 -2.59 -1.01	0.85	2.0	5 6	20 16 13	12 11	7	w.	James C. Faris William Spearman. Spartanburg Water Wo J. C. Cornwell. Prof. F. 11, 11, 13, 13 U. S. Weather Burcan.
Columbia  Crescent.  Due West Edgedield Ellenton Gaston Shoals 11.	Spartanhurg Abbeville	630	5 17 18	42. 8	-0.7	68	81	19	15	31	2.71 2.25 1.43	-1.34 -2.94 -2.05	0.77 0.92 0.77	0.5	2	14				Broad River Power Ce U. S. W. B. Aerologica Agent C. and W. C. Ry A. A. Foreman. Southern Public Utili.
Greenwood	Greenville Greenwood	. 1039	47 1 47 3 29		-0.5 -1.2	66	31 26 25	24 20 20	15 15	35	2.55 3.08 1.84	-2.32 -0.83 -1.65 -1.58	1. 30	3. 8 T.	8 5	14 20 17				U. S. Weather Bureau M. M. Calhoun J. Marvin Bowers John W. Hamel
Landruin Laureus	Spartauburg Laurens	. 1063 . 589	16	43. 9 44. 1 43. 2	+1.9	73 74	26 25 29 25	19 16 17 22	† 2 † 2 † 2	42 47 37	2. 12 1. 85 2. 54 2. 55	-3.45 -1.87	1. 15 0. 98	T. 2. 0	0 6 5 6	15 19	9 5 13	7	w. sw.	R. Hurtwell Wilds, D. L. G. Roff. Miss Alberta Sease.
New berry Pelzer Saluda Sauluek	Newberry Anderson Sulnda	. 502 . 850 . 536	2   27 0   27 6   29	44.2	-0.7	70	†30	19	† 2	40	2. 61 2. 45 2. 75 3. 08	-1.14	1.29 0.84 0.70 1.05	0.1	4 9 5 7 5 8	18	6	: :::	w.	John H. Baxter. Joshua Y. Jones. B. B. Blease. E. W. Jeter.
Spartunburg Trenton Walhalla Winnsboro Winthrop College	Spartanburg Edgefield Oconee Fairlield York	. 626 106 544 69	4 54 0 88 1 31 5 37 0 31	42.7 46.6 41.2 *43.7 42.2	-1.1 -0.3	72 71 769	25 25 25 †25 †25 25	21 19 14 *20 19	1	43 -45 -34 -39	2.41 2.51 3.42 2.31 3.46	-1.11 -1.58 -1.24	1 1.24 3 1.96 4 1.26 7 1.46	T. 1. 0. 5 2.	5 8 5 7 0 6	15 13 13 15	11 11 12 9	5	sw. w. nw.	M. H. Daniel. Mrs. S. E. Long. II. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
- Pivlsion means and	Textremes			. 43.8			29	10			2.56	-		1				1		

The departures from the normal temperature and precipitation are computed only for such stations as have tenor more years of record, but all complete reports are used determining section or division means. Reference letters (\*, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, e for the contract of the contract of the contract of the contract of the contract of the day but is the contract of the contra

Daily	Precinite	tion for	January	1001

Stations.	Drainage.														1	my	of m	onth	۵.														
Stations.	basma,	1	2	8	4	5	6	7	8	9	10	11	12	18	14	18	16	17	la	19	20	21	22	23	21	25	26	27	26	29	30	31	Tota
Eastern Partion.				1								1	-	-	-	-		-					-	-	Sec. 1071 -			-				-	-
Heanfurt (near)	Chast					, 5t			. 35			T	. 50	. 22					80	i	ne					1							2, 47
Blackville ()	Edisto			T	T	. 16	T.		.52	T.			. 80	. 52					4.9	1.5													2. 68
Cheraw //	Cinst				T.	. 29	. 02						. 66	.01				.06	. 82		.07												2.37
Conway III	Pre Hee Waccamaw					. 21	. 28		. 18	. 17			. 63	. 78	01	. 09			. 05	. 21													2.60
						,00	. 50													. 10													2.39
Parlington III	Pue Dee					. 05			. 20				. 60 . 71	. 35		T.	1		. 19	. 10													1.42
Ettiugham -	Lyuches					. 09	. 06		. 13	. 21			.71	. 92					. 24	. 12													2.45
Florence 1	Pee Dee													. 00					. 04	.09								1					3.35
Florence 2 1 1	do					.05	. 03			55				02	1.	0.4			1.71	. 08							!						2,06
inruett	Savannah	T.			T	. 17	. 05		.48			T.	1.50	. 18					. 39	. 10					• • • •								2.77
Seorgetown	Court																																2, ,,
Kingstree III	Const					. 12	200		. 08																								
Marion	Pee Dee							• • • •	. 56	. 25			1 59	. 86	99				. 28	.15													2.67
dars Bluff	do					7'.	.10		. 08	. 30			.67	. 99	1.22	T.			11	11										[			2.50
Prangeburg	Edista					. 31	. 02		. 27	T.			1, 53 .67 1, 33 1, 20	. 11	T.				. 54	. 01													2.59
	Cooper					. 30	. 10		. 20			. 25	1.20						1.00	. 50													3.55
thoin filt	Suntee					. 55				96			00	. 70					00	0.5													
octety 11111	Per Dec				. 09	. 44		. 12		. 20			90	61		T			. 02	. 65													3.18
unmerville	Asmey	. 02			T	. 41			. 05	. 36			. 79	95					. 41	.20													3.22
Verlgellele	Wateree																		. 51	.03													2.86
emussee !!!	Ashepoo						1.5													1.5													
						. 19	. 10		. 02	.41			. 10	.74					. 47	. 19													2.93
Iken	Edisto								. 42				1.03	. 07					. 53	. 12			1					- 1			- 1		2.17
inderson. Dulrs	Sayannah					. 75							1.05		. 08				. 30														2.66
	Brond					. 46							. 85	. 33	. 05																		2.44
alhour thills iii	Saynunah				1. 50	.10			.80	"ii	• • • • •		. 98		.10																		3.42
amden #	Savannah Wateree					.30	. 47		. 35	. 15			64	60		0.5				. 35													2.18
utawba ##																			. 00												:		3.21
III Doells III	Catawba Saluda Broad					. 05	. 73		. 10	. 20			. 45	. 65		. 10			. 05	. 35 .													2.68
Herokee (near)													. 85	. 38	.03				.29	. 15 .							0.						2.66
lester lenson College	Savarianh																																3.50
olumbla ***	Savannah					1.22		.52											. 35	. 07				- 1					- n				2.37
rescent	Congaree					. 25			. 39																								2.41
													. 73						. 12	. 11													2.71
ne West***	Savannah			. 06		.34			. 43			. 11	. 81 .	!	.02	1	R	- 1	18		- 1	- 1	1						-				2, 25
	Savannah					. 00							. 66 .									- 1											1 43
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	Saudient			Ť.	. 03				92	. 30 .																							2.11
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Except as otherwise indicated, observations are generally made late in the afternoon, near smost, and precipitation recorded is for the 24 hours ending at the time of observation. ||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\* Regular Weather Bureau station; precipitation is for the 24 hour period, midnight to midnight. \* Precipitation included in the next following measurement. I Separate dates of falls not recorded. T. Trace, or less than 0.01 included.

## COMPARATIVE DATA FOR JANUARY.

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Conway Minimum	50 40	53	62 28 65 21	40	68 49	65 49	30	50 30	31	29	26	41	41	48 30	43 24	49 21	27 58 24 60 22	38	48	54 42	58 30	56 25	65 29	31	71 32	69 39 70 38	37	69 40	70 36	63 32	70 48
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Garnett   Maximum   Minimum   Maximum   Maximum   Maximum	37	20	24 70 37	45 67 45	45	42	25	34	38	28	30	45	54 39	47 30	22	20 45 21	24	44	62 47	40	31	24	66 28	36 70 28	30	32	71 34	40	33	70 32	78 47
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Society Hill M Maximum Minimum	47 30	23 55 16	16	74 41	55 58 44	30	30	1	38 52 27 45 36	49 27	50 22	43 44 29 59 27 57	46	40 27	21	17	18	46 29	61 41	44 35	53 28	36 25	26	69 26	71 34	71 36	70 37 69 39 78 37 71 42	70 39	70 35	63 28	37 70 30 72 44 69
Smannerville M   Maximum   Minimum	31	55 20 52	22	41 65 39 65	69 50 71 52	58 45 63 44	58 28 57 29	49 30 50	45 36	27 53 27 48 29	22 57 27 49 29	59 27	49	46 31	44 24 41 22	17 47 21 50	62 23 58 30	29 50 27 46	59 48	45	28 53 81 50	62 24	67 26 65	26 71 32 69	34 72 34 70	36 70 36	78 37	72 38	38	28 67 31 64 30	44
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Wedgeheld / Minimum	51	52	67	66	70	64	55	54	48	53	51	61		46	43	45	60	55	60	53	50	59	64	68	70	69	70	69	71	67	76
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Anderson Minimum	49 25	52	38 47 35 37 26 49 21	55 38	52 62 47	50 37	27 47 26	36 42 31	31 46 33	32 52 30	33 45 31	26	34 48 28	40 24	20 43 19	24 51 21	28 55 26 52 19 67 22	27 47 37	53 39	35 45 80	28 52 27	28 54 26 33 21 60 27	64 33	65 35	66	64 40	42 61 41 53 40 65 39	69 42	40 69 40 59 36 70	70 36 67 35 57 30 65 36	45 69 48
Caesar's Head / Minimum	31	42 25 55 19	37 26	48 31	48 85 57 42	40 30	41 20	38 21 49 37	40 25 49	44 26 51 27	30 27 50 27	40 28 50 34	44 24 52 31	30 21 40	39 13	40 14	52 19	34 30 44 29	51 33	41 22 46 34	44 20 53	33 21	33 51 24 65	35 56 28 69	38 65 37 72 35	59 38	53	42 63 37 72 39	59 36	57 30	48 59 81 72 38
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Due West Maximum	48 32 46 26 46 30	52 24 50 25 52 30	61 37 45 34 50 38	54 58 39 53 37 54 40	52 68 53 62 48 60 46	53 38 48 32 47 33	48	44 36 40 32 42 32	50 31 45 33 46 83	48 32 49 32 51 34	48 34 45 32 44 33	44 40 41 37 44 35	46 34 47 30 47 32	40 26	43 25 42 19 41 24	49 23	60 28 57 30 54 28 57 29	40 48 42 44 37 45 36	39 58 41 54 39 53 40	25 45 38 44 31 43 33	22 49 33 48 28 48 31	26 58 27 54 26 52 32	28 66 38 63 32 63 34	64 33	30 70 43 67 36 67 41	66 45 64 40 62 44	68 45 62 37 60 41	38 64 48 67 44 66 46	32 67 46 66 39 67 44	33 66 36 65 34 65 37	70 32 68 50 68 44 67 45
Greenville Maximim	46 30	52 30	50 38	54 40	60 46	47 33	48 27	42 32	46 33	51 34	33	44 35	47 32	26 40 26	41 24	48 25	57 29	45 36	53 40	43 33	48 31	52 32	63 34	33 65 41	41	62	60	66 46	67 44	65 37	45
Greenwood   Maximum	44 28	48 22 50	51 24	57 34	57	45 39	46 27	49	50 32	45 30	52 29	48 32	51 36	48 29	40 20	53 21	59 24	55 28	55 40	44 33	43 29	47	66 25	64 35	65 37	68	64 41	63 40	67	67	66 38
Heath Springs Maximum	28 45 23 46 30 45	50	24 55 32 63 32 54 31	57 34 55 38 62 32 53 35	57 44 65 49 55 50 60 45	49	27 52 28 55 27 53 30	24 38 30 41	32 45 25 49 25 53 31	45 30 46 30 49 29 52 30	52 29 46 26 45 29 42 21	48 32 46 36 44 36	44 34	48 29 34 28 37 27 43 22	20 38 20 39 19 44 24	21 47 23 51 19 49 16	24 48 31 60 29 58 25	55 28 43 35 60	55 40 54 39 59	38 44 32 48 33 51 33	29 45 28 49 27	47 24 51 28 55 24 52 21	25 63 32 64 29 64 43	64 35 65 34 68 36 67 45	65 37 66 40 70 37 73 40	68 38 65 41 71	41 63 42 68 41 61 43	40 64 43 69 41 69 44	67 40 65 40 68 37 63 43	67 37 60 32 63 29 63 36	66 38 64 44 67 43 62 43
Kershaw Maximum	46 30	24 53 19	63	62 32	55 50	49 41 53 39 50	55	31	49 25	49	45 29	44 36	44 34 47 35 50 38	37 27	39 19	51 19	60 29	60 29	59 40	48 33	49 27	55 24	64 29	68	70 37	71 41	68 41	69 41	68	63 29	67 48
Landrum   Maximum   Maximum   Minimum   5 31	55 16	54 31	58 35	60 45	50 39	53 30	44 29	53 31	52 30	42 21	44 35	50 33	43 22	44 24	49 16	58 25	29 50 36	40 56 40	51 33	49 31	52 21	64 43	67 45	73 40	41 66 46	61 43	69	f 3 43	63 36	62 43	
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Little Mountain Maximum	48	51	28 55 35 49 33	34 55 38 56 34	49 67 50 67 50	58 39 52 38	26 54 27 54 26	31 45 35	52 29 50 28 53 27	29 48 29 51 28	29 46 33 49 28	52 87 45 37 46 87	51 30 46 33 56	45 29 43 29 39 27	42 17 41 22 45 20	21 50 24 55 19	57 27 56 29 58 27	53 37 52 40 45	55 42 57	47 30 50 34 47 33	50 25 50 28 57 26	51 25 57 27 58 28	74 27 64 34 66	67 29 66 37 67 32	71 30 68 40 70 35	68 34 67 40 66 38	33 67 41 65 37	67 89 67 46 70 41	74 41 67 46 69 34	68 87 64 89 66 30	70 29 67 44 70 44
Newberry   Maximum Minimum	48 28 48 27	24 55 22	49	56	67	52	54	41 31	58 27	51	49	46 37	56 32	39 27	45	55 19	58 27	45 38	57 40	47	57 26	58 28	66	67 32	70 35	66	65	70 41	69	66	70 44
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Santuck ) Maximum / Minimum	46 21	47 18	48 26	54, 34	60 46	51 26	42 29	49 25	50 26	48 22		45 37	49 30	40 26	43 13	50 14	58 24	47 37	54 41	49 30	47 23	54 19	58 25	64 25	65 27	66 30	66 30	65 34	66 28	68 25	68 39
Maximum	47 30			54 38	62	47 39	51	37 31	47	50	52	42	48	35	41 21	48 22	57	45	54	43 31	49	50	62	64	68 35	65	59	66	65	64	65
Trenton / Minimum / Maximum / Minimu	53	57	50 32 64 36	59	47 66	53	28 51	46	32 49 28 50	30 67	28 48	35 46	30 45	26 43 27	49	22 49 24	28 58 28 54	36 57 42	58	51 34	53	61	28 69	68	72 42 71	39 65 42	66	75	69	70	69
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Whinshoro M. Maximum	45	49	31 54	58 88 57 86	67	52 41	53	28 39 29	49 27	50'.	26			1	39 20	48 24	20 57 27 58	44 81 51 31 55	62	50	49 22 50	55		67	33 69 38	36 66 41	67	69	67	63	69 37
Winthrop College   Maximum   Minimum	28 45 24	20 52 19	21 47 29	56 33	47 66 57 60 45 67 42 66 47	53 26	28 51 27 49 21 53 27 50, 25	46 30	45 25	28 49 26	45 25	46 35	49	42 26	40 19	49	58 28	55 38	31 56 40	47 27 50 34 49 30	50	54	63 27	66 34	69 34	65 87	58 38	61 39	66	68 38	66 32
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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

M Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 2-26-31-900

### CLIMATOLOGICAL DATA

SOUTH CAROLINA SECTION

RICHARD H. SULLIVAN. Meteorologist.

VOL. XXXIV. COLUMBIA, S. C., FEBRUARY, 1931.

### GENERAL SUMMARY.

Precipitation averaged less than half the normal, and the vinter closed with soil moisture considerably less than for sevral seasons; in fact, this was reflected in the persistent lowcater stages in the streams. The mean temperature was close normal, with two notably warm periods.

Winter cereals, truck, and tree fruits maintained generally ttisfactory growing condition. Hardy shrubbery began budding arly in the month, and vegetation made practically seasonal lvance, with peaches, pears, and plums blooming rather freely the month closed. Tobacco beds showed normal developuite general in the interior toward the end of the month, with north at Charleston on the 14th. irly good stands of oats. The rather frequent rains, though enerally light, facilitated spring plowing, which was well adinced.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 gular Weather Bureau stations in and surrounding the Seeon, was 30.08 inches. The highest pressure was 30.39 inches at olumbia and Asheville, N. C., on the 15th; the lowest presre was 29.63 inches at Charlotte, N. C., on the 9th, and in the normal during the month. ction proper, 29.64 inches at Greenville on the same date.

### TEMPERATURE.

The monthly mean for the Section, determined from reports of 39 stations, was 47.7°, or 0.2° above normal. The glast temperature was 77° at Conway and Summerville on e 18th. The warm periods were from the 2d to the 9th, bout the 18th, from the 17th to the 19th, and on the 23d and th, when the daily means ranged from 5° to 16° above normal. The lowest temperature was 15° above to 15°. al. The lowest temperature was 15° above zero at Caesar's ead on the 11th. The cold periods were on the 10th and 11th, the 15th and 16th, from the 20th to the 22d, and about the th, when the daily means ranged from 5° to 12° below rmal.

The mean relative humidity, determined from reports of 9 gular Weather Bureau stations in and surrounding the Secon, was as follows: 8 a.m., 79%: noon, 55%: 8 p. m., 61%. ne highest percentages occurred in the Savannah basin and ong the coast, and the lowest, in the north-central interior.

### PRECIPITATION.

The average for the Section, 53 stations reporting, was 77 inches, or 2.51 inches below normal. Precipitation ocrred in five irregularly defined periods, and the amounts!

were much below normal generally, except in the extreme northwestern counties, the measurements being mostly below 3 inches, while five stations report less than one inch. The greatest local monthly amount was 4.63 inches at Walhalla; least local monthly amount, 0.38 inch at Darlington. The greatest amount during any 24 hours was 1.41 inches at Edgefield on the 14th. The average number of rainy days was 25% below normal.

Measurable snowfall occurred at Caesar's Head on the 25th, and snow flurries occurred at Greenville, Landrum and Laurens on the same date. Sleet occurred at Due West on the 25th. Light hail was reported at Calhoun Falls on the 21st and at Walhalla on the 20th.

### WIND.

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was 6.7 miles. The highest velocity for any 5-minute period was 39 miles per hour from the northwest at Savannah, Ga., on the ent. White potato, garden, and spring oat planting became 20th, and in the Section proper, 31 miles per hour from the

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 191.8 hours, or 62% of the possible amount. The average number of clear days was 15; partly eloudy, 6, and cloudy, 7, as against normals of 13, 6, and 9 days, respectively.

### RIVER CONDITIONS.

There were no floods, and all streams averaged below

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Columbia, Due West, and Spartanburg, 27. Solar: Columbia, 12, 13, 27; Due West, 12, 23; Greenville, 12, 16; Santuck, 27; Spartanburg, 12, 16, 27.

Fog, dense.—Charleston, 18, 19, 20; Due West, 18; Greenville, 18; Pelzer, 18; Rimini, 6; Sumter, 5. 7.

### ERRATA.

December, 1930.—Rimini, total precipitation, pages 46 and 47, should be 2.84. January, 1931.—Conway, greatest 24-hour precipitation, page 2, should be 1.04, Spartanburg, number of rainy days, page 2, should be 10.

### MISCELLANEOUS DATA FOR FEBRUARY, 1931.

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Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sibie suns
Asheville, N.C Augusta, Ga Charleston, S.C Charlotte, N.C Columbia, S.C Dne West, S.C Greenville, S.C Savannah, Ga Wilmington, N.C. Means and ex. }	30, 10 30, 06 30, 07 30, 07 30, 08 30, 10 30, 05 30, 06 30, 09	41. 7 49. 8 51. 8 46. 2 49. 4 46. 4 46. 8 54. 7 49. 4	63 71 74 67 70 66 66 75 73	17 30 32 24 28 24 26 33 26	1. 24 1. 87 1. 67 1. 93 1. 29 1. 98 3. 80 1. 82 1. 72	0.33 0.80 0.71 0.50 0.81 0.62 1.38 0.63 0.64	7. 0 8. 9 8. 6 4. 8 5. 2 7. 4 9. 8 5. 8	nw. sw. ne. ne. sw. ne. s. n.	81 93 79 72 78 82 71 75 80	52 71 60 48 49 54 53 54 56	58 70 68 51 52 56 66 66	52 66 63 69 66 61 63 59 62

### Climatelogical Data for February, 1931.

					Clima	tologic	al D	ata :	for .	Febr	uary	1931	•					<u> </u>	_	
			record.	т	empera	ture, in	degre	es Fa	hr.		Preci	pitation	in inc		Num	ber	of da	ys.	direction	
Stations.	Counties.	Elevation, feet.	Length of recognition	Меап.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	(irentest duily range.	Total.	Departure from	Grentest in 24 hours.	Total snowfall,	With precipition (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
Eastern Portion. Beaufort (near)** Blackville Cheriaw. Conway Darlington Ellington Ellington Ellington Florence 1 Florence 2 Garnett Georgetown Kinstice. Marion Mars Bluff. Orangelurg Pinopolis Itumin Saciety Illi Summerville Summerville Summerville Wedgedeld Yemassee	Georgetown Williamsburg Marion Florence Orangeburg Berkeley Santer Darlington Dorchester Sumter Hampton	19 7 16 24 2	40 45 49 5 16 5 18 38 49 6 8 4 15 4 15 4 17 17 2 40 5 5 7 7 9 9 4 4 12 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4	52.0 51.0 51.8 46.8 49.1 46.8 47.8 51.5 50.4 47.8 445.4 48.8 47.2 445.4 48.8 49.4 49.4 49.4 49.4 49.4 49.4 49	1	74 72 74 75 77 73 76 75 75 75 74 70 68	17 18 18 18 18 19  18 18 18 18 18 18 18 18 18 18 18 18 18	29 25 32 24 24 22 23 24 22 23 24 22 27 24 417 22 23 25 27 24 27 27 24 21 21 21 21 21 21 21 21 21 21 21 21 21	†100 15 15 15 15 15 15 15 15 11 11 11 11 11	445 44 41 40 45	1, 3 1, 3 1, 5 1, 4	-3.1 -2.9 -2.2 -2.1 -2.5 -2.5 -2.5 -2.8 -2.5 -2.6 -2.7	0 0.83 0.71 0.33 2 0.80 0 0.28 0 0.56 0 0.56 0 0.63 0 0.63 0 0.63 0 0.63 0 0.64 0 0.64 0 0.64 0 0.64 0 0.74 0		5 6 6 4 4 4 7 7 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	18 18 20 18 16 16	4 2 2 5 6 10 5 11 15 5 1 15 5 1	6 8 8 6 6 8 1 1 1 3 4 4 4 7 7	ne. s. n. n.	
Division menus and Western Portion.  Alken Anderson Bairs Gesurs Head II Cambon Chanden Fulls Chanden Chappels Cherokee (near) Chester Columbia Crescent Due West Bigefield Greenwood Heatti Springs Kershaw Laurens Laurens Laurens Laurens Laurens Santuek Spartanburg Treuton Wallisalia Winnishoro Westler Springen Spartanburg Treuton Wallisalia Winnishoro Windrop Conlege I Division menus a Section means a	Alken Anderson Fairfield Greenville Kershaw York Newberry Spartanburg Abbeville Elgefield Clorokee Greenville Greenwood Lancaster Laurens Newberry Anderson Spartanburg Laurens Newberry Anderson Spartanburg Anderson Spartanburg Anderson Spartanburg Anderson Spartanburg Anderson Spartanburg Anderson Spartanburg Anderson Spartanburg Anderson Spartanburg Kilgefield Ocopie	56. 77. 72. 31. 5. 5. 4. 7. 4. 8. 8. 8. 8. 10. 11. 11. 11. 11. 11. 11. 11. 11. 11	227 69 38 93 26 62 22 88 7 8 8 7 8 8 8 8 7 8 8 8 8 7 8 8 8 8	51.1.46.37,745.45.45.45.45.45.45.45.45.45.45.45.45.4	1 +2.1 +3.6 +13.6	68 77 66 66 71 7 66 68 3 7 7 66 66 11 67 67 68 8 7 7 66 68 7 7 66 68 7 7 66 68 7 7 68 7 7 68 7 7 7 68 7 7 7 68 7 7 7 68 7 7 7 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 28 28 28 3 29 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 44 1 3 1 1 3 1 1 3 1 1 1 1 1 1 1 1 1 1	0   8.3   1.5   1.	155	69 0.2 2 0.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	166 577 170 170 170 170 170 170 170 170 170 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	85484 665 59 586868 75476 57765 94964 6 6	11 16 11 18 11 18 11 16 17 19 17 18 18 11 14 14 15 15 15	0 1 1 5 4 1 1 5 6 6 1 1 5 6 6 1 1 1 5 6 6 1 1 1 1	7 m 6 v 6 v 3 s 6 s 9 s 5 s 5 s	11. II. Itinssell. Sarah L. Owens. Crosar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown. James C. Faris. William Spearman. Spartanburg Water Work L. C. Cornwell. Prof. F. H. II. Calhoun. U. S. Weather Burean. Duke Power Co. W. U. S. W. B. Aerological S. Agent C. and W. C. Ry. A. A. Foreman. Southern Public Utilitie U. S. Weather Burean. M. M. Calhoun. J. Maryy Howers, M. Calhoun. J. Maryy Howers, M. Hannel. L. G. Roff. Miss Alberta Sease.

The departures from the normal temperature and precipitation are computed only for such stations as have tonor more years of record, but all complete reports are used it determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, by represents not necessary to the section of the properties of the section of the sectio

Daily Precipitation for February, 1931 ....

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COMPARATIVE DATA FOR FEBRUARY.

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\*Also nw.

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Reference letters (\*, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

M Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 3-24-31-900

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# U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

Vol., XXXIV. COLUMBIA, S. C., MARCH, 1931.

### GENERAL SUMMARY.

and the precipitation averaged much below normal.

The persistently low temperatures, especially at night, with only a few short warm periods, retarded the advance of vegetation, which was generally backward. Tree fruits bloomed progressively as the month advanced, but the general condition of buds was such that no serious frost damage resulted. While timely and favorable for plowing, which made good progress. Truck, garden, white potato, and spring oat planting proceeded satisfactorily, although germination was rather slow. Winter cereals and young tobacco plants maintained generally southeast at Charleston on the 21st. healthy condition. Pasturage was short, on the whole. Asparagus shipments began early in the month, and lettuce shipments began toward the close.

### PRESSURE.

regular Weather Burcau stations in and surrounding the Sec-days, respectively. tion, was 29.95 inches. The highest pressure was 30.36 inches at Charlotte, N. C., on the 27th, and in the Section proper, 30-35 inches at Columbia on the same date; the lowest pressure was 29.38 inches at Charleston and Columbia on the 31st, and at stages, Charlotte, N. C., on the 7th.

The monthly mean for the Section, determined from reports of 40 stations, was 48.8°, or 5.8° below normal. The nighest temperature was 78° at Garnett on the 14th and 24th. The warm periods were about the first and on the 14th and 15th, when the daily mean temperatures ranged from  $5^{\circ}$  to  $11^{\circ}$ above normal. The lowest temperature was 18° at Caesar's Head on the 5th. The cold periods were from the 2d to the 2th and from the 16th to the end of the month, when the laily mean temperatures ranged from 5° to 15° below normal. ate spring freezing temperatures were general as late as the 8th and at a considerable number of up-State stations on he 30th.

Annual 1930.—Frost table, page 63, are rages for eastern and western portion and for Section, should read 1830 instead of 1820.

Section, should read 1830 instead of 1820.

Section, 1931.—Landrum, maximum temperature, page 6, should read 67 on 4th.†

Marion, greatest 24-hour precipitation, page 6, should read 6.8.

### HUMIDITY.

The mean relative humidity, determined from reports of 10 egular Weather Bureau stations in and surrounding the Section, was as follows: 8 a.m., 74%: noon, 52%: 8 p.m., 60%. he highest percentages occurred in the lower Savannah basin nd along the lower coast, and the lowest, in the north-central nterior.

### PRECIPITATION.

The average for the Section, 53 stations reporting, was 98 inches, or 0.97 inch below the normal. Precipitation courred in six periods, with poor distribution as to area and mounts. The monthly measurements ranged from 4 to over inches in sections of the higher Piedmont, but in the major ortion of the Section, the amounts ranged downward from 3 inches to less than 2 inches. The greatest local monthly amount was 5.29 inches at Crescent (Van Patton Shoals), and the least local monthly amount was 1.39 inches at Darlington. The greatest amount during any 24 hours was 2.30 inches at Conway on the 21st and 22d. The average number of rainy days was 12% below normal.

Measurable snowfall occurred at a number of stations in the up-country on the 4th, 21st, and 22d, and scattered snow The month was far down in the group of cold Marches, flurries occurred up-State on the 8th. Sleet was reported at several stations in the upper counties on the 3d, 4th, and 21st. Light hail occurred at Pinopolis on the 30th and at Charleston and Darlington on the 31st.

### WIND.

The prevailing wind was from the west. The average the month was relatively dry in most sections, the rainfall was hourly velocity, determined from 9 anemometer records, was 9 0 miles. The highest velocity for any 5-minute period was 40 miles per hour from the west at Savannah, Ga., on the 8th, and in the Section proper, 37 miles per hour from the

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 229.8 hours, or 62% of the possible amount. The average number of clear days was 16; partly The mean sea-level pressure, determined from reports of 10 cloudy, 6, and cloudy, 9, as against normals of 14, 8, and 9

### RIVER CONDITIONS.

The rivers of the Section continued generally below normal

### MISCELLANEOUS PHENOMENA (dates).

Last killing frosts or freezing temperatures.—5th, 1 station; 6th, 1; 10th, 1; 12th, 3; 13th, 1; 17th, 1; 18th, 17: 19th, 1; 22d, 2; 23d, 1; 24th, 1; 26th, 2; 30th, 6.

Halos-Lunar: Charleston, 26, 30; Columbia, 2, 6, 7, 26; Due West, 26; Greenville, 26; Santuck, 27. Solar: Charleston, 14; Columbia, 14, 18, 20; Due West, 14, 30; Spartanburg, 18, 30.

Fog, dense. - Due West, 1, 15.

### ERRATA.

### MISCELLANEOUS DATA FOR MARCH, 1831.

Stations.	r, sea	Tem	perat ees I	nre, abr.	tic	ipita- in, hes.	Win 8-cup 2		re	Mean elati midi	ve	soi pos.
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage of po
Asheville, N. C. Angusta, Ga Charleston, S. C. Charlotte, N. C. Columbia, S. C. Due West, S. C. Greenville, S. C. Savannah, Ga. Spartanburg, S. C. Wilmington, N. C. Means and ex. tremes.	29, 96 29, 95 29, 94 29, 93 29, 95 29, 98 29, 98 29, 94 29, 95 29, 95	41. 1 51. 6 53. 8 46. 5 49. 8 47. 2 46. 8 54. 8 55. 8 50. 1	65 77 75 68 70 68 67 74 68 73	21 32 35 28 32 27 29 36 27 31	2, 59 2, 14 2, 88 4, 41 2, 96 3, 01 4, 63 2, 62 4, 31 3, 06 3, 26	1.08 1.06 1.42 1.21 0.95 1.08 1.46 0.80 1.55 1.89	10. 8 6. 4 10. 8 6. 5 7. 6 10. 4† 9. 5 12. 8	nw nw, w. n. w. w. ne. w. nw. w.	78 80 72 70 72 76 72 74 78 74	54 55 54 50 45 51 57 54  52	63 58 66 56 53 59 62 52 60	49 66 66 59 65 62 65 65 65

Climatological Data for March, 1931.

					Clim	atolo	gical	Dat	a for	Ma	rch,	1931.								
			record,	т	empera	ture, i	n deg	rees Fa	ahr.		Preci	pitation.	in ine	hes.	Nun	nber o	of da	ıys.	tion	
Stations.	Counties.	Elevation, feet.	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeited.	With precipition (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing direction or wind.	Observers.
Eastern Partion.																				
Beaufort (near)‡‡ Blackville Charleston Cheraw	BeaufortBarnwellCharlestonChesterfield	21 296 48 144	50 47 60 49	53. 8 52. 0 53. 8 49. 1	-4.7 -5.5 -3.6 -4.5	75 74 75 75	15 14 15 14	33 28 35 26	13 5 5 †11	37 41 21 45	2.72 1.98 2.88 2.71	-0.70 -1.52 -0.14 - 0.87	1. 28 1. 05 1. 42 1. 11	T. T.	6 7 7 6	19 17 15	5 7 6 	7 7 10	w. w.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthey U. S. Weather Bureau. Roland D. Powe.
Conway Darlington Effingham Ferguson‡‡	Horry	25 175 106 63	41 86 40 45	51. 4 48. 8	-5.1 -6.5 -5.4	75 74 75	14 14	27 25 	11 12 5	47 41  38	3.58 1.39 2.37 3.42	+0.04 -1.70 -1.44 +0.09	2.30 0.50 1.02 2.01	T 0	9 6 7 5	21 16 	0 3 	10 12 	nw.	Perry C. Quattlebaum. D. C. McCall. Wm. B. Gillespie. Henry C. Savage.
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Society Hill	Darlington	192 75 169 249 24	40 33 7 41 42	51.8 51.8 51.0 50.2 52.6	-7.2 -6.2 -3.2 -4.0 -5.3	<sup>b</sup> 75 75 72 70 77	13 15 †14 27 24	*23 27 25 27 26	11 † 5 12 5 5	<sup>5</sup> 47 40 44 38 42	3. 64 3. 29 1. 49 2.05 2. 64	+0, 20 -0, 07 -1, 96 -1, 42 -0, 88	0.90 2 04 1.03 1 15 0.66	T 0 T. 0	9 5 6 6 6	17 18 16 21 17	6 4 6 5 6	8 9 9 5 8	w. nw. sw. w. nw.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extremes			51.0	-5.4	78	†14	23	11	48	2.49	-1.00	2.30	T.	6	18	5	8	nw.	
Western Portion,																			nw.	
Aiken Anderson Blairs Cæsars Head‡‡ Calhonn Fails Canden	Aiken Anderson Fairfield Greenville Abbeville Kershaw	527 764 293 3118 508 222	69 38 26 7 32 81	51.6 47.6  37.0 48.0 47.0	-4.0 -6.2  -1.7 -7.2	74 69 60 72 70	28 14 †13 19 14	26 25  18 26 25	5 5 5 5 5 5	38 40 39 38 40	1. 92 2. 91 2. 93 5 10 2. 62 2. 47	-2.08 -1.77 -1.00 -2.24 -1.29	0.86 0.77 1.56 1.83 0.93 1.10	0.5 0 4.0 0	6 5	18 18 11 17	1 2  4 5	12 11 16 9		Frank B. McCoy. 11. 11. Russell. Sarah L. Owens. Cæsar's Head—P. Mtn. C L. M. Purker. Henry A. Brown.
Catawba Chappells Cherokee (near) Chester Cleuson College †† Columbia	Spartanburg Chester	562 402 758 487 850 351	25 26 3 9 39 45	45. 7 47. 7 49. 8	-4 9 -5, 4	71 69 70	14 14 14 14	24 24 32	5 17 5	45 42 29	2. 13 3. 07 4. 34 3. 46 2. 96	-2.15 -1.03 -1.48 -0.45	1.16 1.42 1.42 0.87 0.95	0.5 0.7 T. T. 0.3	10 8 10	18	6 5 8	7 12	nw.	James C. Faris. William Spearman. Spartanburg Water Wor J. C. Cornwell. Prof. F. H. H. Calhonn. U. S. Wenther Burean.
Crescent. Due West Edgefield Ellenton Gaston Shoals 11. Greenville.	Spartanburg	630 711 76 680 1039	5 17 18 28 47	47.2	-6.8 -3.1	68	14	27	5	32	5, 29 3, 01 2, 79 1, 73 3, 67 4, 63	-1, 66 -1,30 -1,13 -0,52	1.91 1.08 0.48 0.79 1.30 1.46	0.8 0.8 0 0 T.	10				w.	Duke Power Co. U. S. W. B. Aerological S. Agent C. and W. C. Ry. A. A. Foreman. Southern Public Utilitie U. S. Weather Burean.
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Little Mountain. Newberry Pelzer Saluda Sautnek	Newberry	711 502 850	38 27 27 29	48. 6 48. 5  46. 4	-6.4 -6.2 	70 72 71	14 14 14	28 24 20	5 5  12	44	3. 26 3. 42 3. 81 3. 25 3. 77	-0. 67 -0. 56 -1. 02 -1. 13 -0. 72	1. 43 1. 20 1. 06 1. 20	2. 0 3. 0 0 T.	10	16	5 3  8	::::	w. 	Miss Alberta Sease. John H. Baxter. Joshna Y. Jones. B. B. Blease, E. W. Jeter.
Spartanburg. Trenton Walhalla Winnsboro Winthrop College	Spartanburg Edgefield	620 1061 545	38 31 37	45.8 50.3 44.8 47.6 47.2	-5.4 -5.6 -6.4 -4.4 -6.0	68 74 69 70 71	14 28 14 †14 14	27 26 22 26 26 25	5 5 7 5 12	44 44 37	4. 31 2. 95 4. 32 2. 59 3. 36	-1.60	0.70 1.25 1.09	4	10 9	15 13 8 15	10	7 10 13 8	e. nw. ne. n.	U. S. Weather Bureau. Mrs. S. E. Long. 11. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
Division means and Section means and		1	4	47.1	-6.3 -5.8	74 78	28 †14	18 18	5		3, 33 2, 98			0.8						

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (4, 8, 9), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. I show that the property of the desired from the property of the desired from the property of the desired from the property of the desired from the property of the desired from the property of the desired from the property of the desired from the property of the desired from the property of the desired from the property of the desired from the property of the property of the property of the property of the property of the desired from the property of

### Daily Precipitation for March, 1931.

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scept as otherwise indicated, observations are generally made late in the afternoon, near smiset, and precipitation recorded is for the 24 hours ending at the time of ervation. ||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the our period, midnight to midnight. \* Precipitation included in the next following measurement. | Separate dates of falls not recorded. || T. Trace, or less than 0.01 included in the next following measurement. |

### COMPARATIVE DATA FOR MARCH.

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### Daily Temperatures for March, 1931.

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Yennassee   Maximum   Maximum   Maximum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Minimum   43	58 41 55 38 43 31 57	40	34 54 36 55 38 47 39 38 21 56 34 46 35	28 51 27 55 26 55 26 55 25 38 18 58 26 55 55 55 55 55 55 56 56 56 56 56 56 56	58 37 65 35 59 19 65 27 64	58 41 56 40 45 83 57 31 56 83	56 42 542 56 41 54 34 26 25 46 37 52 40 53	38 52 35 35 46 82 44 29 32 19 47 29 41 32	56 30 55 29 41 19 59 29 52	52 63 36 62 33 59 33 49 20 62 30 54 27	62 33 64 30 45 20 61 32 54	71 39 67 33 60 21 68 33 67	68 47 73 43 49 69 47 58 31 71 85 70 85 71 39	48 72 52 70 51 68 42 56 37 69 43 64	66 42 58 36 43 27 68 38 54	59 59 37 58 29 48 23 63 32 55 37 55 37 55 37	68 29 68 36 62 31 54 67 32 64	70 43 68 44 60 28 72 34 64	68 37 65 33 56 27 64 36 61	53 47 60 41 52 37 39 28 50 36	42 53 47 46 40 49 36 39 29 53 89	88 65 42 66 35 65 27 66 37 61 85 64 80	65 47 58 48 45 31 64	66 48 62 43 56 36 66 44 57	47 68 37 66 40 65 34 50 29 58 85 61 31 62 27	63 48 57 45 42 30 60 36	42 75 55 55 74 52 61 48 49 38 66 49 66	72 40 61 36 50 29 64 87 63 42 60 33	65 88 61 84 55 26 00 34 66	67 67 52 51 52 41 89 27 54 41 58 89	
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Henth Springs Maximum Maximum Maximum Maximum Jandinum Maximum	58 46 63 49 56 49 41 66 41 66 41 66 41 66 41 66 41 66 41 66 41 66 62 65 65 65 65 65 65 65 65 65 65 65 65 65	86 588 589 555 8 54 40 54 40 54 557 38 557 37 37	35 55 37 54 54 54 55 55 55 56 57 30	45 33 47 32 47 82 48 32 	53	68 34 65 32 67 31 67 85 68 34	58 40 58 39 64 39 59 45 56 43	51 36 57 35 49 85 55 37 55 38 56 37	43 29 46 30 44 26 45 30 40 32 47 31	27 54 28 51 31 57 28 50 80 57 29		26 50 24 56 34 59 25 58 31 59 26	83, 67 28 67 33 69 28 68 88 70 28	72 43 68 41 71 40 70 46 72 44	46 72 44 64 47 69 39 69 48 70 44	42 67 44 55 38 59 39 65 44 59 41	56 31 56 33 57 33 57 33 58 57 34	58, 30, 65, 30, 62, 28, 65, 31, 68, 36, 65, 29,	43 70 89 68 36 70 41	58 35 63 36 62 35 68 32 68 34 63 33	85 57 87 55 39 54 88 58 39 56 37 54 39	42 39 45 39 46 32 45 38 44 37 43 39	58 35 63 35 62 38 65 34 64 35 65 34	63 87 60 85 67 89 60 39 61 37 62 45 60 40	45 60 37 65 45 60 37 65 34 64 44 65 45	65 43 65 32 63 35 64 84 64 89 65 32	59 46 60 34 61 46	61 42 67 49 51 45 68 48 68 71 51	68 87 60 83 65 43 59 40 65 86 65 86 65 86 65 86	84 60 83 66 84 68 87 68 87 68 84 64 84 64 84	50 42 53 45 56 40 54 54 54 45 45
Santuck Minimum.  Spartauburg Minimum.  Maximum Maximum  Trenton Minimum  Wallialla Minimum  Winushoro M Minimum  Winushoro M Minimum  Winushoro M Minimum  Winthrop College Minimum  Minimum	. 6	9 52 1 87 1 55 8 40 8 51 1 88 1 59 5 89 5 56	2 49 7 37 5 54 5 54 5 56 5 58 5 58 5 58 5 58 5 58	43 32 52 52 83 48 28 40 32 49	51 27 51 26 55 22 55 26 55	64 68 37 64 25 66 29	54 39 68 41 54 55 55 89	37 39 33 58 37 50 30 42 39 56	429 499 499 811 422 28 44 299 50	53 31 54 29 54	34 59	57 34 62 29 64 25 57 27 56	67 38 73 86 66 25 67 83 65	68 49 79 48 69 88 70 87	64 42 72 46 68 35 70 46 68	57 43	55 80 60 82 56 22 57 35 58 30	26 64 32 62	66 41 69 42 68 36 67 36	26 60 84 66 86 61 26 60 36 67 36	. 26 47 34 53 37 54 34 48 40 57 36	38 44 33 56 37 51 33 44 40 42 35	31 62 86 65 36 63 29 62 86 62 34	54 40 58 44 62 39 61 41 60 48	40 61 40 65 47 61 84 64 46 64 42	37 62 33 67 36 64 27 62 35 64 32	53 44 62 47 54 89 61 42 60	58 45 74 50 60 45	62 40 64 36 65 29 63 89 63 41	29 59 38 68 87 60 28 62 36 62 37	49 40 59 49 50 89 58 42 59 40

Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, \* represents two days missing, etc.

M Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 4 24:31 -900

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### U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief,

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol. XXXIV. COLUMBIA, S. C., APRIL, 1931.

### GENERAL SUMMARY.

Temperatures averaged considerably below normal, and recipitation was somewhat above the average, on the whole. nd germination was generally satisfactory, notwithstanding Head on the 1st and 6th. ome replanting incident to low temperatures. Cotton and orn were coming to good stands as the month closed, and Boyd's Mill power house, on the Reedy River, Laurens County, otton chopping began in some sections of the coastal plain. 17th. Vinter cereals, truck, white potatoes, and pastures made fair rowth, and wheat, oats, and rye headed rapidly during the The prevailing wind was from the west. The average stroughout the mouth, as did the asparagus harvest, but the truce harvest closed about the 20th. Tree fruits began the 7.8 miles. The highest velocity for any 5-minute period was ason with comparatively little frost damage. Native strawerries were being marketed toward the close of the month, and blackberries were blooming. The woods were generally een by the 20th.

### PRESSURE.

The mean sea-level pressure, determined from reports of 10 gular Weather Burean stations in and surrounding the Secon, was 30.07 inches. The highest pressure was 30.47 inches at sheville, N. C., on the 12th, and in the Section proper, 30.46 ches at Greenville on the 13th; the lowest pressure was .28 inches at Wilmington, N. C., on the 1st, and in the Secon proper, 29.31 inches at Spartanburg on the same date.

### TEMPERATURE.

The monthly mean for the Section, determined from re-rts of 42 stations, was 60.2°, or 2.1° below the normal. The ghest temperature was 89° at Beaufort (near) on the 26th. ie warm periods were on the 3d and 4th, from the 8th to the 24; Columbia, 24, 30; Due West, 3. th, from the 13th the 21st, and about the 26th and 30th, th, from the 13th the 21st, and about the 26th and 30th, length the daily mean temperatures ranged from near normal 10° above. The lowest temperature was 29° at Caesar's Trenton, 20, 21; Mars Bluff, 14, 21. ad on the 2d and 7th. Freezing temperatures were recorded Walhalla as late as the 7th, and at Caesar's Head, as late as 28th. The cool periods were on the 1st and 2d, from the n to 7th, from the 22d to the 25th, and from the 27th to the h, inclusive, when the daily mean temperatures ranged m 5° to 17° below normal.

### HUMIDITY.

The-mean relative humidity, determined from reports of 10 wlar Weather Burean stations in and surrounding the See-n, was as follows: 8 a.m., 76%; noon, 52%; 8 p. m., 59%. e highest percentages occurred in the lower Savannah basin lalong the lower coast, and the lowest, in the northwestern inties.

### PRECIPITATION.

The average for the Section, 54 stations reporting, was 4 inches, or 0.16 inch above normal. Precipitation ocred in five periods in the western and four periods in the

eastern portion. Distribution was poor, with 4 to nearly 7 inches in small areas of the Piedmont and the northern interior and less than 1 inch in Charleston County, with unusually light rainfall along the coast and in upper Abbeville County. The greatest local monthly amount was 6.93 inches at Caesar's Head; least local mouthly amount, 0.92 inch at Charleston. The greatest amount during any 24 hours was 2.00 inches at Caesar's Head on the 22d. The average number of rainy days was 43% above normal. Light sleet occurred at Spartanburg on the 6th, and light hail occurred at Laurens on The growing season opened with vegetation backward, the same date. Measurable snowfall occurred at Caesar's

Killed by Lightning .- Mr. Earl Elledge, electrician, at

### WIND.

39 miles per hour from the west at Due West on the 26th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 265.8 hours, or 68% of the possible amount. The average number of clear days was 16; partly cloudy, 5, and cloudy, 9, as against normals of 15, 8, and 7 days, respectively.

### RIVER CONDITIONS.

The Santee River was in moderate flood at Rimini from the 3d to the 11th, inclusive, and at Ferguson, from the 6th to the 12th, inclusive. The remaining streams averaged close to or above normal, except rather low water in the Congarce River at Columbia.

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 27, 28. Solar: Charleston,

### ERRATA.

Annual, 1930.—Total rainfall, March, page 51, at Garnett, should be 4.32. March, 1931.—Cheraw, greatest 24-hour rainfall, page 10, should be 1.01.

### MISCELLANEOUS DATA FOR APRIL, 1931.

	Stations.	r, sea		perat ees I		tic	ipita- ni, hes.	Wir 3-cup 2	nem.	re	Meni elati midi	٧e	age of pos-
	stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns
10001088	sheville, N. C Lugnsta, Ga charletson, S. C charlette, N. C columbia, S. C cheenville, S. C creenville, S. C partanburg, S. C. climington, N. C Means and ex- tremes.	30. 08 30. 06 30. 07 30 05 30. 06 30. 08 30. 06 30. 06 30. 08 30. 08 30. 08	53, 4 62, 9 63, 6 58, 5 60, 8 59, 2 59, 4 64, 8 58, 4 60, 6	78 83 84 82 81 79 78 86 80 84	33 40 43 37 40 37 38 42 38 41	4.71 2.92 0.92 2.60 2.82 1.51 3.63 0.72 3.62 1.13	1. 91 0. 95 0. 63 0. 87 1. 08 0. 48 1. 53 0. 66 1. 26 0. 61 1. 91	7.9 5.4 9.7 5.2 6.6 8.7 8.4 11.2	nw nw. sw ne. e. sw. ne. w. ne. sw ne. sw	76 83 75 73 74 76 76 76 76	49 58 57 51 45 53 52 52 52 50	58 62 73 54 52 51 68 48 69	52 70 73 62 77 68 66 71 74

### Climatological Data for April, 1931.

	ta fo	Ar	ril, 1	931.																
			record.	Те	mperat	ure, ii	n degr	ees Fa	hr.		Precip	itation,	in inc	hes.	Num	ber	of da	ays.	etion	
Stations.	Counties.	on, feet	Length of rec	Mean.	Departure from the normal.	Highest.	Dute.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normul.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipition (0.01 in. or more)	Cleur.	Partly elondy.	Cloudy.	Prevailing direction of wind.	Observers.
Eastern Portion,				1		1	1													
Beaufort (near) <sup>‡‡</sup> Black ville Charleston Chern w	Beaufort Burnwell Churleston Chesterfield	21 296 48 144	50 47 60 49	63. 0 63. 6	-0.3 -1.5 -0.9 -0.9	89 86 84 86	26 30 . 30 9	42 37 43 40	7 7 7 7	38 43 26 46	1.37 2.80 0.92 3.61	-1.06 -0.51 -1.61 -0.51	0.83 1.34 0.63 1.21	0 0 0	6 8 7 8	15 15 13	11 10 7	5 10	s. sw.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Wenther Burean. Roland D. Powe.
Conway	Darlington Florence Orangeburg	25 175 106 63	41 36 40 45		-1.1 -1.2 -0.9	85 884 	9 30 	38 *37 	8 8 8	47 *43 	2.69 2.24 3.07 2.54	$     \begin{array}{r}       -0.38 \\       -1.03 \\       -0.25 \\       -0.52     \end{array} $	0.86 0.97 0.80 0.93	0 0 0	7 8 9 6	22 15 	0 3 	8 12 	sw.	Perry C. Quattlebaum. D. C. McCall. Wnt. B. Gillespie, Henry C. Savage.
Florence 1	Florencedo	136 136 82 18 54	49 16 13 38 49		-2.8 -3.1 -0.9	82 °86 88	30	39 °37 38	† 7 7	42 °45 45	3.06 2.51 2.62	+0.06 -0.49 -0.97	0. 92 0. 80 1. 05 0. 75	0 0 0 0	9	15 17 17 17	10 6 7	5 7 6	sw. e. s.	11. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Dr. A. L. Dantzler. Mrs. Ellen Scott.
Mariou Mars Itluff Orangeburg Pinopolis Rantini	Marion	68 92 264 54 97	6 8 15 84 17	63. 4 60. 2	-1.2 -1.9	°85 86 78	30 10 † 4	°36 37 40	8 23 7	°48 43	3.82 2.82 3.31 2.25 4.40	+0.44 -0.78 +1.28	0.90 0.67 0.80 0.75 1.00	0000	11 9 7	16 18 16	10 6 5	6 9	w. nw.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station Miss E. P. Ravenel. Julian H. Aycock.
Society Hill Summerville Sumter Wedgedeld Yennissee	Darlington Dorchester Sumter Sunter Thompton	192 75 169 249 24	40 33 7 41 42	62.8 61.5 60.6 63.5	-3.2 -1.1 -1.2 -2.1 -0.7	84 87 81 82 87	†14 30 30 15 30	*37 89 38 37 39	† 7 7 7 7 7 7 7	39 41 38 43	2.77 2.97 3.19 3.69 2.33	0.70 -0.51 +0.07 +0.56 -0.59	1.02 0.84 1.19 1.13 0.88	0000	8 8 11	16 17 18 18 18	3 2 7 9 1	14	e.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extremes			61.9	-1.5	89	26	36	8	48	2.75	-0.34	1.34	(	8	16	6	8	sw.	
Western Portion.																			e.	
Alken Anderson Bluirs Cesurs Head <sup>‡‡</sup> Callionn Fulls Camden	Fuirfield	527 764 293 3118 508 222	69 38 26 7 32 81	62.5 60.2 49.6 58.6 58.4	-1.1 -1.5 -2.6 -4.1	82 82 75 84 81	† 3 14  14 30 †11	35 35 29 38 37	7 7 7 1 2 1 2 1 7	36 42 36	2.35 2.38 3.73 6.93 2.95 4.33	-0.73 -1.05 +0.82 -0.51 -1.15	0.50 0.87 1.13 2.00 1.14 1.35	1.0	6 13 12 9	11 15	3	12		Frank B. McCoy. H. H. Russell. Sarah L. Owens. Cresar's Head-P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba Chappells Cherokee (near) Chester Clenson College	Vork Newberry Spartanhurg Chester Oconee	562 402 758 487 850	25 26 3 9 39	57.6 59.7	-0.4	80 81 81	9 †22 30	34 36 40	····· 7	45 43 31	3.81 2.72 4.27 5.20 2.82	+5.74 -0.38 -1.37 -0.07	1.33		13	16		12	nw.	James C. Faris. William Spearman. Spartanburg Water Work J. C. Cornwell. Prof. F. H. H. Cathoun. U. S. Weather Burean.
Columbia  Crescent.  Due West Edgefield Ellenton Gaston Shoais []	Spartanburg Abbeville	351 630 711 76 680	45 5 17 18 28	59.2	2.5 1.7	79	30	37	7	37	3.82 1.51 3.80 2.99 2.94	-1.65 +0.38	1.59 0.48 0.62 0.74 1.10		0 10 0 12 0 16 0 8 0 12	12				Duke Power Co. U. S. W. B. Aerological St. Agent C. and W. C. Ry. A. A. Foreman. Southern Public Utilitles U. S. Wenther Burcau.
Greenvine. Greenwood Heath Springs Kershaw Landrum	Greenwood Lnucuster Kershaw Spartunburg	1039 671 568 500 1063	47 29 15 16	59. 4 58. 3 57. 9 60. 7 58. 8	+0.8 -2.9 -2.7 -1.8 -1.1	78 81 79 86 81 83	29 15 † 9 30 9 30	38 35 35 36 34 35	77777	37 38 47 42 44	3.63 3.24 2.61 3.82 5.89 2.36	-0.09 +0.13 -0.70 +0.09 +1.34 -1.50	1.39 0.69 1.10		0 10 0 10 0 8 0 18 0 10 0 11	18 3 17 3 14 0 18	1	0 12 0 13 0 16	W. e. W.	M. M. Calhonn. J. Marvin Bowers. John W. Hamel. R. Hartwell Wilds, D.D.S. L. G. Roff.
Laurens Little Mountain Newberry Pelzer Saluda Santuck	Newberry Newberry Newberry Anderson Saluda	589 711 502 850 536 512	38 27 27 29	59.6 60.2 60.0 56.8	-0.1 -2.2 -2.2 -2.2 -3.5	83 84  h82 80	30 30 15 † 9	35 36 *36 33	7	43 46	3, 64	+0.36 -0.94 -0.34 -0.47	0.96 0.76 0.96		0 9 0 11 0 12 0 0	17		1 11	w. w.	Miss Alberta Sease. John H. Baxter. Joshun V. Jones. B. B. Blease. E. W. Jeter.
Spartauburg. Treuton Walhalla Winnsboro Winthrop College !!	Spartanburg Edgefield	824 620 1061 545	54 38 31 37	58. 4 61. 4 57. 4 *59. 7 59. 0	-1.7 -1.7 -1.5 -1.7 -2.0	80 84 80 81 81	14 †14 29 † 9 †10	38 35 32 *33	2	35 45 45 8 *38	3, 62 3, 64 4, 63 4, 28	+0.29 +0.23 -0.04 +1.30	1.1	1	0 1 0 1 0 1 0 1	9 13 3 13 3 1-	3 4 4	7 1 3 1 6 1	9 e. 0 se. 3 sw. 0 s.	U. S. Weather Bureau. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson W. T. Clawson.
Division menus and	extremes				-2.3 -2.1	86 89	30 26	29			1				1	0 1		5 1	1 w. 9 w.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\* ), \* (\*), \* appearing in the table indicate number of days missing; for example, \* b represents two days missing, etc. \* Also on other dates. \* If Received too late to be included in means and summarries. \* Temperature data are from observed readings of the dry limb; means are complete from observed readings. If Dost-office addresses of these stations are as follows: of fastion shocks, Blacksburg; of Wintingo College, Rock Hill; of Ferguson, Entawellier of Cesar's Head, Greenville; of Beaufort (uear), Burton. \$ Observations taken from dry bulb thermometer at 7 a.m., 3 p.m. and 10 p.m. The Precipitation is less than 0.01 inch of rain or melted snow.

Daily Precipitation for April, 1931.

51A - A1	Drainage-	-													1	Day	of m	out	h.					-									
Stations.	busins.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	80	31	Total.
Custern Provion. fort(near). cville	Coast	.01	Ť.		. 10	. 11 .68	T.						T.					::::		. 85	T.		. 02	. 45		T.	. 01	. 26					1. 87 2. 80 0. 92 3. 61
ngton	Pee Dee	.29	.02 T.			. 97 . 80 . 93 . 92 . 80	. 35 . 42 . 33 . 20 . 35	т.												.12 .50 .63 .20 T.	.03 T. .43	17 T. 07 T.	. 12	. 45 . 40 . 36 . 32 . 53 . 38			T 04 . 40 . 21 . 02	. 08					2. 69 2. 24 3. 07 2. 54 3. 06 2. 51
telown stree    h   h   h   h   h   h   h   h   h	Coast Black Pee Dee	. 40	Ť.		.23	. 08 . 50 . 90 . 61	. 03 . 75 . 25 . 67	T.					Tr.							. 21 	.21	.26	 10 T.	.08	••••	. 40	.38	. 10					2.62 2.04 3.32 2.82 8.31
il	Sautee Pee Dee. Ashitey Wateree do Ashepoo	. 96 . 47 . 21 . 56	. 20			. 26 1. 02 . 84 . 78	.07	.11											. 10	1.00 .28 .21 .52	. 25 . 97 . 03 . 57 . 38	. 02	.30		. 10	. 02 T.	.05	. 16					2. 25 4. 40 2. 77 2. 97 3. 19 3. 69 2. 33
son       s Hend 	Wateree	. 05 1. 11 1. 35			1. 95	. 49 . 47 . 18 . 12 I. 02	. 18	.07				. 34					::::		.08		. 31		.50	::::		. 17	. 35				:::		2.35 2.38 3.73 6.93 2.95 4.33
eils     cee (near) r m Callege nbla ***	Cainwba Saluda Broaddo	1. 09 . 85 1. 20 	. 12		. 28 . 18 1. 33 1. 45	. 79 T. T.	.30 .29 .25	.14				.32	.21 .10						.03	T .	.11	.09	.22 .38 .80	.23 .		. 19	.13 .	20 .					3. 81 2. 72 4. 27 5. 20 2. 82
est*** etcl	Savannah Savannah Savannah Brond	.08 .31 .95 .14 1.32	. 39	.09	.27	.03 .48 .58 .24 .12	. 14 . 43 . 18 . 44	. 04				.17 .15 .13 .38	.05				.21	Ť.	.03 .	.31 .46 .08	. 11 . 48 	. 01  T.	. 47 . 62 . 47 . 35 . 23	.02	T  T.	04 47 	. 07 . 26 . 74 	21			Г Г		3.82 1.51 3.80 2.99 2.94 3.63 3.24
w /	Lynches Broad Saluda Saluda Saluda Saluda do	1. 10 1. 15 . 64 . 95 . 07	. 03		.04 1.32 .19	. 87 . 10 . 69 . 40	.39 .24 .19 .26 .18	06				.33 .38 .	.23						. 22 . 22	.09 .05 .03 .38 .03	. 42 . 18 	. 17 . 54 1 . 05 . 10 . 15	. 25 . 62 . 45 . 20 . 35 . 96 .	.33		.03 .06 .30 .13	06 24 05 05						2.61 3.82 5.89 2.36 3.64 2.31 3.53
k uburg *** u u lu oro	Brond	.68 1.26 .13 .44	. 16	. 03	.43 .30 .34	44 25 65 T	. 21 18 18 47	17				. 25 . 29 . 29	.10		•••			02	. 13 T 42 1.	T 13 .	T	T. T. T.	.32 . .74 .45 .	Ť.	01	22 . 04 . 03 .	06 Γ 11 16 34 22	04					2. 66 2. 56 3. 62 3. 64 4. 63 4. 28 5. 60
cent us otherwise		-		_													-		-		1	,	d.		- 1		- 1	1	11.	1	A.	1	

cept as otherwise Indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of reation. |||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the purposed, midnight to midnight. \* Precipitation included in the next following measurement. Is parate dates of falls not recorded. T. Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR APRIL.

	1			1															
	Te	mperatu	ire.	Precip	itation.		days.	ber of	iling direc-		Te	inperatn	re.	Precip	Itation.	Averng	e num days.	her of	ing irec.
ar.	Mean.	Highest	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind d
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Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, brepresents two days missing, etc.

Maintenants are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 5-25 31-900

or. XXXIV.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

### GENERAL SUMMARY.

The month was far down in the group of cool Mays, and ecipitation averaged considerably above normal.

COLUMBIA, S. C., MAY, 1931.

The night temperatures and rainfall distribution were not that could be desired, but all crops made generally good owth during the month. Cotton and corn, though small for e season, developed good stands, with good cultivation, but t weather in the northern counties was attended by some outh and was approaching completion on the coastal plain the close, but was general up-State. Tobacco transplanting ded about the 15th, and sweet potato transplanting made od progress, with generally excellent soil conditions. The 20th, and early peaches and early cherries were being markd about the close of the month. The general oat and rye ring the last week. Vegetables of all kinds were on sale in eggs. son, and strawberry marketing ended about the close of the nth.

The mean sea-level pressure, determined from reports of 9 ular Weather Bureau stations in and surrounding the Secn, was 29.97 inches. The highest pressure was 30.34 inches at e West on the 28th; the lowest pressure was 29.61 inches at arlotte, N. C., on the 31st, and in the Section proper, 29,62 hes at Spartanburg on the same date.

### TEMPERATURE.

The monthly mean for the Section, determined from rets of 42 stations, was 68.0°, or 2.8° below the normal. The hest temperature was 95° at Garnett and Kershaw on the 18th ls were negligible, except from the 17th to the 20th, inclu-5th, and 23d to 25th, when the daily mean temperatures ged from 5° to 16° below normal.

### HUMIDITY.

The mean relative humidity, determined from reports of 10 ular Weather Bureau stations in and surrounding the Sec-1, was as follows: 8 a.m., 75%: noon, 55%: 8 p. m., 63%. highest percentages ocentred in the lower Savannah basin lalong the coast, and the lowest, in the north-central sec-

### PRECIPITATION.

The average for the Section, 54 stations reporting, was 4 inches, or 1.10 inches above the normal. Rainfall ocred in three fairly well-defined periods, but was very badly ributed as to areas and amounts. There was a long series airly eopious showers from the 1st to the 12th. Along the st and in a considerable area of the middle counties, the nthly measurements were below normal, with less than 3.

inches, while in extensive sections of the northern coastal plain and the Piedmont, the total monthly amounts ranged from 4 to over 10 inches. The greatest local monthly amount was 10.39 inches at Clemson College; least local monthly amount, 1.12 inches at Charleston. The greatest amount during any 24 hours was 3.02 inches at Crescent (Van Patton Shoals) on the 20th and 21st. Light hail was reported from Greenville, Landrum, Laurens, Santuck, Walhalla, and Winthrop College on the 7th, at Darlington on the 12th, at Landrum on the 18th, at Camden on the 22d, at Newberry on the 26th, and at Heath Springs on the 27th. The average number of rainy days was 25%above normal.

Killed by Lightning .- May 7, shortly after noon, Annie Hudgens, colored girl, while returning from school near Greenville.

Hailstorms and Wind Squall .- On May 7, during a thundercumulation of grass. Cotton chopping began early in the storm near Greenville, stock sheds were damaged by a wind squall to the extent of about \$200. In the Kirby's Cross Roads section of western Dillon County, about noon on May 7, hail, lasting a few minutes, damaged crops about \$500; some of the hailstones were reported as large as goose eggs. Just before ite potato and commercial cucumber harvests began about noon on May 7, crops in the Ebenezer Section, near Rock Hill, were damaged about \$1,000. The crops losses during a hailstorm near Marietta on May 17 were estimated at about \$1,000; rvests also began about the 20th, and wheat harvest began some of the hailstones were said to have been as large as hen

The prevailing wind was from the west. The average hourly velocity, determined from 9 anemometer records, was 6.9 miles. The highest velocity for any 5-minute period was 36 miles per hour from the west at Greenville on the 22d.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 295.2 hours, or 68% of the possible amount. The average number of clear days was 16; partly cloudy, 7, and cloudy, 8, as against normals of 15, 9, and 7 days, respectively.

### RIVER CONDITIONS.

at Winthrop College, Rock Hill, on the 19th. The warm pe-Santee River was in moderate flood at Rimini on the 10th and The Saluda River was in flood at Pelzer on the 22d. The lowest temperature was 33° at Caesar's Head on River was rather high throughout the month, with few excepfrom the 25th to the 27th, inclusive: at Ferguson, the Santee 24th. The cool periods were from the 4th to the 8th, 11th tions. The Pee Dee River was in flood at Cheraw on the 23d and 24th, inclusive, and at Mars Bluff, from the 25th to the 29th, inclusive.

### MISCELLANEOUS DATA FOR MAY, 1931.

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Stations.	Barometer, ievel.	Меап.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns
Asheville, N. C., Angusta, Gu., Charleston, S. C., Chullotte, N. C. Columbia, S. C., Due West, S. C., Greenville, S. C., Savannah, Ga., Spartanburg, S. C., Wilmington, N. C., Means and ex. / tremes.	29, 97 29, 96 29, 98 29, 96 29, 97 30, 60 29, 96 29, 97 29, 99	61.8 70.3 71.4 67.2 68.9 67.0 66.2 72.0 65.9 68.7	88 91 88 90 90 89 88 91 89 86	36 48 53 43 46 43 46 52 42 48	2, 20 3, 51 1, 12 6, 53 3, 75 3, 17 5, 73 1, 88 5, 55 3, 62 3, 71	0.79 1.08 0.28 1.42 1.23 0.63 1.55 0.74 1.84 1.20	7. 0 4. 8 9. 2 3. 7 5. 9 7. 4 7. 5 9. 9	nw nw. s. s.w s. s.w s. s.w s. s.w s. s.w s.w	76 83 74 72 74 76 70 77 74 77	53 58 59 51 48 53 53 56 55	61 63 74 61 58 69 51 73	55 70 71 71 71 77 64 71 64 72

### Climatological Data for May, 1981.

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	1		record.	· T	empera	ture, i	n degr	rees F	ahr.		Precip	itation.	in ine	hes.	Num	ber	of da	ys.	direction md::	
Stations.	Counties.	on. fee	Length of rec	Mean.	Departure from the normal.	Ilighest.	Date.	Lowest.	Date.	Createst daily range.	Total.	Departure from the normal.	Grewtest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
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Marion Mars Bluff Ornugeburg Pinopolis	Marion Florence Orangeburg Berkeley Sumter	68 92 264 54 97	6 8 15 84 17	69.3 70.7 66.3	0.0 -3.4	92  90 84	18 19 18	42 44 50	5 24 24	39 41	6.21 7.12 4.00 8.47 6.31	+0.52 +4.69 +2.02	2.10 2.00 1.09 2.50 1.70	0 0 0 0	6 10 10 10 7	15 15 11	9  4 11	7 12 9	sw.	Alden F. Schell. Rosa R. Davis. U.S. Fisheries Station Miss E. P. Ravenel. Julian H. Aycock.
Rimini Society Hill Summerville Sumter Wedgedield Yemnssee	Darlington	192 75 169 249 24	40 38 7 41 42	68.2 70.4 69.6 68.5 70.4	-2.2 -1.3 -1.7 -2.7 -1.8	94 91 90 90 91	18 †19 †18 18 †18	40 47 42 46 42	24 24 24 † 1 24	39 36 43 43 40	6.31 2.75 4.03 3.81 3.58	+2.87 -0.69 +0.80 +0.49 -0.08	2.35 1.26 0.80 0.98 0.85	0 0 0 0	10 9 12 10 9	14 17 21	2 3 3 5 8	5 14 11 5 9	W. S. Su. W. Se.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. G. Hutson.
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Division means and	extremes			. 66.7				1				1			0 1	1 1 0 1		7 8	1	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used it determining section or division means. Reference letters (a, b, c), appearing in the table indicate immuler of days missing, for example, b represents two days missing, etc and the property of the day of

### Daily Precipitation for May, 1931.

Stations.	Drainage-														1	Day	of m	ont	h.				_										1
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rson s     r's Head om Falls     an     rba	Savannah Wateree	. 18	. 80 . 46 41.	.23 .	. i† '		24 82 53 05	. 40 . 94 . 73 . 08	.21	. 18	. 49	. 04 .	. 23 . 07 . 80							1.50	60	. 24 . 06 . 48 . 84	.10	. 18			. 07 .	.44	. 08				1.84 3.54 2.54 6.99 3.81 3.55
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teept us otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of revation. ||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the our period, midnight to midnight. \* Precipitation included in the next following measurement. | Reparate dates of falls not recorded. || T. Trace, or less than 0.01 included in the next following measurement. |

## COMPARATIVE DATA FOR MAY.

						,	COMP	ILVII	VE D	ATA FOR M	AY.								
	Te	uperatu	ire.	Precip	itation.		days.	her of	iling direc-		Te	mperatu	re.	Precip	itation.	Averag	e uum duys.	er of	ing irec-
ч. г.	Меап.	Highest	Lowest.	Average	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevaili wind di
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Laurens 5.   Maximum Minimum   Maximum Minimum   Maximum Minimum   Maximum Minimum   Maximum Minimum   Maximum Minimum   Minim	56 72 57 71 55 76 59	59 76 59 77 60 85 55 69 59	- 1	4 64 0 55 2 64 8 49 7 6- 50 5: 33 78 66 5: 73 6 51 5:	54 72 55 73 55 77 56 77 56 1 70 2 54	55	46 4 67 7 46 4	7 77 19 57 10 78 16 5- 16 5- 16 79 79 79 76 79 76 7		5-1 7 4: 2 7: 1 5:			50 5 82 51 6 86 47 2 80 4 42	51 85 85 85 88 59 85 46	61 87 60 87 62 91 59 86 63	61 91 64 91 61 86 65 90 62	64 88 63 86 62 86 65 85 60	66 6 81 8 68 68 6 67 6 86 8 65 6 65 6	0 8: 3 6:	75				58 85 57 85 60 85 58	1			91 56 80 61 90 60 54 90 55
Spartanburg   Maximum Mindmunt   Mushmum Mindmunt   Mushmum Mindmunt   Mushmum Mindmunt   Mushmum   Mushmum Mindmunt   Mushmum	56 79 55 64 57 64	78 56 72 58 75 54 74 60 76 54	81 56 83 56 80 50 81 60 83 58	75 6	9 64 4 54 8 71 5 45 4 66 3 50 6 73 4 54 0 70 2 48	68 54 75 57 69 55 78 58 70 58	71 47 75 49 72 89 77 49 76 48	72 779 779 779 770 770 770 770 770 770 770	3 66 7 5 0 7 0 5 4 6 7 4 9 7 9 5 6 7 9 5	1 55 5 5 5 6 7 7 4 5 7 7	3 49 0 69 4 47 1 72	75 55 75 56 75 76 76 76 77 76 77 76 77 77 77 77 77 77	2 81 1 50 8 77 0 52 9 82 5 42 5 82 9 49 9 49 2 81 7 47	83 58 58 83 45 86 56 85	86 59 81 60 87 55 87 62 80 60	88 61 88 65 89 58 91 66 84 61	82 61 86 62 84 55 87 64 95 68	78 8 64 68 65 65 678 8 63 6 65 65 66 64	12 6 16 8 18 6 18 8 11 6 15 6 15 6 15 8 15 8	1 48	711 422 759 45 757 758 459 759 459 759 459 759 459 759 459 759 759 759 759 759 759 759 759 759 7	888 528 828 528 840 840 841 550	85 85 85 85 85 85 85 85 85 85 85 85 85 8	5 85 5 84 5 84 5 59 6 87 5 54 8 84 1 61 1 61 8 58	60	89 58 87 58 89 55 87 56 88 57	89 58 88 60 93 57 88 58 58	89 59 90 61 90 54 90 61 90 61

Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

% Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 6-24-31-900

## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief,

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol. XXXIV.

COLUMBIA, S. C., JUNE, 1931.

GENERAL SUMMARY.

The temperature averaged somewhat above normal, but anusual heat prevailed during the last decade. Precipitation

iveraged less than half the normal. Depletion of soil moisture progressed slowly but steadily on account of generally deficient rainfall. The crop situation vas aggravated considerably incident to unusual heat after the 9th. Cotton made good progress, notwithstanding semi-rought; the first bloom was picked near Allendale on the 6th, or 5 days later than normal. Other crops suffered more nring began about the 25th; small grain harvests ended about he 23d, and threshing became active. The commercial cuere marketed in season, and new cantaloupes appeared on arket toward end of the month. Stubble lands were being trued to late corn and forage where soil conditions permitted.

### TEMPERATURE.

The monthly mean for the Section, determined from reports of 41 stations, was 77.8°, or 0.4° above normal. The ghest temperature was 106° at Laurens on the 29th. The arm periods were from the 4th to 6th, on the 12th and 13th, nd from the 19th to the 30th, inclusive, when the daily mean mperatures ranged from 5° to 14° above normal. The lowest mperature was 48° at Walhalla on the 9th. The cool periods ere from the 1st to 3d and 8th to 10th, when the daily mean mperatures ranged from 5° to 11° below normal.

### HUMIDITY.

gular Weather Bureau stations in and surrounding the Seen, was as follows: 8 a.m., 74%: noon, 49%: 8 p. m., 61%. e greatest percentages occurred along the coast, and the vest, in the middle interior.

### PRECIPITATION.

The average for the Section, 53 stations reporting, was 21 inches, or 2.57 inches below normal, 6.60 inches below e average of the wet June of 1906 and but 0.36 inch above e average of the dry June of 1905. Showers occurred in five fieds, with poor distribution as to areas and amounts. asurements of 5 inches or more were confined to a small ren about Beaufort County; elsewhere, the amounts ranged wnward from 4 inches to less than 1 inch, the smaller ues being in considerable areas of the upper counties. atest local monthly amount was 6.09 inches at Beaufort ear); least local monthly amount, 0.11 inch at Aiken. The atest amount during any 24 hours was 3.72 inches at Beaut (near) on the 14th. The average number of rainy days s 40% below normal. Light to moderate hail occurred at houn Falls on the 15th, at Charleston on the 7th, at Feron on the 14th, at Landrum on the 23d, and at Newberry the 9th.

Killed and Injured by Lightning.—21st, Stewart Vance, colored, was killed near Pendleton while under his home gathering eggs. 23d, Messrs. Tom Collins and C. A. Whittle were injured by lightning near Graniteville during the late after-

noon when lightning struck a nearby electric switchboard.

Damage by Hail, Lightning and Wind Squalls.—At 5:30 p. m., June 1, a disastrous hailstorm occurred in the vicinity of Olar, in a path 4 miles wide and 7 miles long, with damage approximating \$65,000; the hailstones ranged from the size of marbles to hen eggs. At Seven Mile, Mt. Pleasant, lightning caused \$1,000 damage to a gasolene storehouse at 4:30 p. m. on the 13th. At 5:30 p. m., June 14, lightning fired a residence in Columbia, the damage being reduced to about \$100 by the local fire department. During a thunderstorm near Trenton on the 15th, lightning struck a large gin-house, the resulting fire entailing a loss of about \$6,000. A school house r less from lack of rain, and late sweet potato transplanting ing the late afternoon of the 21st. On June 23, between 9 and 10 p. m., during a series of thunderstorms in the region about Tobacco 10 p. m., during a series of thunderstorms in the region about Columbia, crops, cabins, and out-houses were damaged near number harvest continued during the month, and white potato \$1,000); the path was one-fourth mile wide and 5 miles long. A hailstorm in the vicinity of Rock Hill during the afternoon of June 29 caused hail damage of about \$2,000 and wind damage of about \$1,000; the hailstones ranged in size from peas to

### WIND.

The prevailing winds were from the south. The average hourly velocity, determined from 9 anemometer records, was 6.0 miles. The highest velocity for any 5-minute period was 42 miles per hour from the north at Savannah, Ga., on the 24th, and in the Section proper, 35 miles per hour from the southwest at Charleston on the 7th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 anto-The mean relative humidity, determined from reports of 9 amount. The average number of clear days was 19; partly matic records, was 342.6 hours, or 80% of the possible cloudy, 8, and cloudy, 3, as against normals of 13, 10, and 7 days, respectively.

### RIVER CONDITIONS.

On account of light rainfall, the upper streams were generally below normal stages, but in the low country, rather elose to the sea, the river stages were near the average.

## MISCELLANEOUS DATA FOR JUNE, 1931.

Statious.	r, sea	Tem	perat	ure, ahr.	l tic	ipita- on, bes.	Win 3-cup 2	nem.	re	Mea: elati mjd:	ve	oi pos-
	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns:
Asheville, N.C. Angusta, Ga. Charleston, S.C. Charlotte, N.C. Columbia, S.C. Greenville, S.C. Greenville, S.C. Savannali, Ga. Wilmington, N.C. Means and ex- tremes.	30, 02 29, 99 30, 02 30, 01 30, 01 30, 04 30, 00 30, 01 30, 03	71. 8 78. 7 78. 4 77. 8 79. 2 78. 8 78. 6 79. 6 75. 8	95 105 97 98 101 103 101 98 93	45 57 63 53 55 54 56 60 56	3. 44 1. 29 2. 46 0.60 1. 85 2. 39 0. 78 2. 68 1. 82	1.65 0.37 1.60 0.32 1.06 1.19 0.37 1.01 1.19	4.7 4.7 9.0 3.4 5.3 6.3 5.7 9.2 5.9	n. s. s.w. s. s. ne. s. s.w.	79 78 75 68 72 69 68 77 76	46 46 63 46 43 45 44 53 52	63 52 74 54 50 52 71 72	78 83 82 75 89 77 80 75 82 80

### Climatelogical Data for June, 1931

					Clin	atolo	gical	Dat	a fo	Ju	ne, 1	981.								
		Ī	record,	Т	empera	ture, in	degre	es Fa	hr.		Precit	itation.	in inel	nes.	Num	ber c	of da	ys.	etion	
Stations.	Counties.	on. fee	Length of reco	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfull.	With precipition (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
		国	3	×	ă	=	A	7	A	9		-	9		38	-			-	
Rostera Portion.  Beautort (near) <sup>‡‡</sup> Binckville Cinnrieston. Cheraw  Conway  Darlington. Ethingham. Forgasoni <sup>‡‡</sup> Florence 2 Garnett Georgetown  Kingstree.  Marlon Mars Bluff. Orangeburg Pluopolis Rümin Society Hill Summerville Sumter Wedgesleld Venussee.	Mariou. Florence Orangeburg Berkeley Sunter Darlington Dorchester.	21 296 48 144 25 175 106 63 136 136 82 18 54 68 92 264 97 192 75 169 249 249	50 47 60 49 41 36 40 45 49 16 13 38 49 6 8 15 84 17 40 33 7 41 42	79. 4 79. 4 78. 4 78. 4 78. 4 77. 1 77. 8 78. 4 78. 4 78. 6 77. 6 78. 8 *78. 9	+0.4 +0.8 -0.5 +1.2 0.0 +0.8 +1.1 -0.2 	100 100 97 100 99 99 103 100 100 101 100 *90 *103 100 101 100 101 100 101	28 † 5 28 † 28 † 28 † 28 † 28 † 23 29 29 29 29 1 28 † 23 29 29 29 29 28 † 23 28 † 23 28 28 28 28 28 28 28 28 28 28 28 28 28	58 56 63 54 52 51 52 51 53 48 -60 -48 54 55 -60	10 10 10 10 10 10 10 10 10 10 10 10 10 1	38 40 21 38 40 37 43 37 43 44 40 40 40 44 40 43	6. 09 3. 35 2. 46 2. 22 2. 20 1. 96 1. 15 2. 54 1. 51 2. 37 3. 52 0. 90 3. 14 3. 45 4. 18 4. 41 1. 90 3. 00 1. 74 1. 19 2. 47	+0.68 -2.12 -2.13 -2.96 -3.07 -3.56 -4.64 -3.01 -3.95 -3.09 -4.11 -1.77 -1.43 -1.59 -0.355 -3.44 -2.68 -2.88 -3.53 -3.70	0.58 1.95 1.21 0.45 1.84	000000000000000000000000000000000000000	6 5 8 4 7	19 17 11 23 21  25 21  25 21  25 16  28 17 18 27 27	9 12 14  0 7  11 8  1 9  2 4 1 1 2 3 2 7	2 1 5  7 2  4 0 0 0 0 0 0 1 1 1 3 1 3	w. se.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthew U. S. Weather Burean. Roland D. Powe. Perry C. Quattlebann. B. G. McGill. B. G. McGil
Division menns and  Western Portion.	extremes			78.1	+0.8	103	†21	48	†10	46	2.64	-2.74								
Alken Anderson Blairs Cæsars Head ‡‡ Calhonn Falls Canden	Fairfield	527 764 293 3118 508 222	26 7 82	80.0 79.2 68.0 79.4 78.3	+2.3 +3.4 +2.1 +0.5	104 101 90 105 98	28 †28  28 28 28 28	57 52 45 52 55	9 9 •••••• •••• ••••	37 36	0.11 1.37 3.10 3.19 2.39 2.78		0. 99 1, 12 0. 95 1, 38	0	5 6 6 6 7	16 16	4 8		w.	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Cæsar's Hend—P. Mtn. C. L. M. Parker. Henry A. Brown.
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used determining section or division means. Reference letters (•, b, c), appearing in the table indicate number of days missing; for example, Prepresents two days missing, et determining section or division means. Reference letters (•, b, c), appearing in the table indicate number of days missing; for example, Prepresents two days missing, et determining section or division means. Reference letters (•, b, c), appearing in the table indicate number of days missing; for example, Prepresents two days missing, et determining section or division search are can be also also be determined in the day of the

Daily Precipitation for June, 1931.

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ington	Pee Dee	.08			·		. 05	. 25	.10							. 04	. 03 . 07	1 84							. 12								1,96
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Except us otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of ervation. |||| Precipitation measured in the morning; amount their recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the num period, midnight to midnight. \* Precipitation included in the next following measurement. Isoparate dates of falls not recorded. T. Truce, or less than 0.01 luch.

### COMPARATIVE DATA FOR JUNE.

	Te	empentu	ıre.	Precip	itation.	Averag	e nnm days.	ber of	lling direc- n.		Te	mperatu	re.	Precip	itation.	Averng	e num days.	ber of	ling direc.
řear.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Preval wind d	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind c
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Daily Temperatures for June, 1931	
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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

| Martineous are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

| W B O, Raleigh, 7-24 31-900 |

# CLIMATOLOGICA

### SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist

VIXXX COLUMBIA, S. C., JULY, 1931. No. 7

### GENERAL SUMMARY.

The month was considerably warmer than usual, and the

ipitation averaged somewhat below normal.

While the showers were mostly scattered as to soil moisamounts until the generally drenching rains toward the of the month, all crops made generally good advance. The her was favorable for cotton, which was in very good ing condition and bloomed and fruited freely; the first boll was picked at Furman on the 23d, or 6 days earlier normal. The commercial encumber harvest and winter I threshing were practically completed during the first , and tobacco curing proceeded throughout the month. red by rather poor soil conditions, was finished about the its contents.

Tree fruits, melons, and vegetables of all kinds were seted in season. White potato planting made fairly good ress, and some fall plowing was done.

### PRESSURE.

'he mean sea-level pressure, determined from reports of 9 ar Weather Bureau stations in and surrounding the Secwas 29.97 inches. The highest pressure was 30.18 inches at West on the 14th; the lowest pressure was 29.71 inches at asta, Ga., on the 4th, and in the Section proper, 29.72 es at Columbia on the same date.

### TEMPERATURE.

The monthly mean for the Section, determined from resolutions, was 82.2°, or 2.4° above normal. The est temperature was 107° at Garnett on the 7th. The ble warm periods were from the 1st to the 8th, 16th to, and 29th to 31st, when the daily mean temperatures ted from 5° to 12° above normal. The lowest temperature cool periods were negligible.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 lar Weather Bureau stations in and surrounding the Sec, was as follows: 8 a.m., 81%: noon, 57%: 8 p. m., 64%. highest percentages occurred along the coast, and the est, in the north-central region.

### PRECIPITATION.

The average for the Section, 53 stations reporting, was inches, or 0.51 inch below normal. Precipitation oc-red in four fairly well defined periods. Distribution was rirregular and spotted, the amounts ranging from 7 to over ches in many small sections to 4 inches or less in numerous er sections, with less than 3 inches in four small areas. greatest local monthly amount was 9.20 inches at Chaps; least local monthly amount, 2.03 inches at Ellenton.

The greatest amount during any 24 hours was 4.27 inches at Winnsboro on 25-26th. The average number of rainy days was 9% below normal.

Killed by Lightning .- 18th, about 3:00 p. m., Mrs. Lawrence Freeman, in Townsend Twine Mill villege, near Anderson, while sitting under a drop light. 20th, Isaac Belcher, colored, while working on a road near McCormick. 21st, J. Gould Johnson, colored, while working on St. Luke's Church, near Sumter; 12 other workmen were stunned by the same lightning bolt, which struck about 1:30 p. m.

Damage by Lightning and Wind .- 2d, a wind squall from a thunderstorm about 4.53 p. m., damaged plate glass in Columbia about 8750. 13th, about 9:00 p. m., a general merchandise store on the highway near Six Mile was fired by lightning, with a loss approximating \$12,000. 18th, lightning struck an unoccupied dwelling in Columbia about 4:00 p. m., the damage to roof and chimney amounting to about \$25. 19th. fire from lightning during the afternoon of the 19th destroyed a barn with contents, including 6 bales of cotton, near Simp-, sweet potatoes, truck, forage, and other crops suffered to sonville, the loss being estimated at about \$1,500. 20th, after-extent from lack of moisture until the last week, espection, lightning struck a pumping station at Winnshoro, the some upland crops, and late sweet potato transplanting, resulting fire causing about \$3,000 damage to a tank car and

### WIND.

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was 5.3 miles. The highest velocity for any 5-minute period was 46 miles per hour from the northeast at Columbia on the 2d.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 303.2 hours, or 69% of the possible amount. The average number of clear days was 15; partly cloudy, 11, and cloudy, 5, as against normals of 13, 11, and 7 days, respectively.

### RIVER CONDITIONS.

the 13-14th

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 22, 23; Columbia, 30, 31; 58° at Caesar's Head (mountain station) on the 11th. Due West, 24. Solar: Charleston, 15, 30; Columbia, 14, 24, 30; Due West, 10, 11, 24.

Fog, dense. - Due West, 16; Kershaw, 1; Mars Bluff, 29.

MISCELLANEOUS DATA FOR JULY, 1831.

	sea	Temp	eratr	re,	Preci tion incl	1.	Win 3-cup A		re	lean lativ nidil	0	e of pos-
Stations	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sibie suns
Asheville, N. C Angusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex-1	29, 97 29, 95 29, 98 29, 96 29, 96 29, 99 29, 97 29, 98	76. 6 84. 7 82. 9 82. 5 82. 8 81. 9 81. 5 83. 5 81. 8	93 103 101 101 101 101 99 99 101 96	61 69 70 67 67 68 65 70 69	2. 09 3. 34 6. 88 8. 62 5. 55 3. 94 4. 38 3. 81 6. 33	0. 62 1.49 1.69 2.50 1.91 1.03 1.34 0.84 1.85	4. 0 4. 2 7. 8 2. 7 4. 9 5. 4 5. 3 8. 3 5. 3	nw. s. sw. sw. sw. sw. sw. sw. sw.	88 79 79 79 80 86 79 81 82	54 50 77 54 53 56 53 60 60	77 64 79 71 67 68 73 81	63 71 69 66 79 72 71 59 69

### Climatological Data for July, 1931.

					Cli	mato	logica	l Da	ta fo	ır Ju	ly, 18	31.								
			record.	7	emper	ature.	in deg	rees F	ahr.		Precip	itation,	in ine	hes.	Nun	ber	of de	7;s,	direction md.	
Stations.	Countles.	i on, feet	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall,	With precipit on (0.01 in. or more)	Clenr.	Partly clossify.1	Cloudy.	Prevailing dire	Observers.
Eastern Portion.																				
Beanfort (near)‡‡ Blackville Charleston	Beaufort Barnwell Charleston Chesterfield	21 296 48 144	50 47 60 49	83.5 83.3 82.9 81.4	+2.1 +2.1 +1.5 +4.5	103 102 101 102	7 30 2 2	69 67 70 70	†11 12 11 †12	27 32 27 30	3.85 4.22 6.88 6.13	$ \begin{array}{r} -2.36 \\ -1.38 \\ -0.01 \\ +0.11 \end{array} $	0.90 1.55 1.69 1.32	0 0 0 0	9 15	9 11 7	16 20 11	6 0 13	s. sw.	Mrs. R. L. Frlpp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway Darlington Ellingham Ferguson‡‡	Horry	25 175 106 63	41 36 40 45	82.8 82.8 83.4	+2.9 +2.9 +3.8	102 ,102	2 2 †2	67 67 66	15 †12	29 27  30	8, 93 5, 32 4, 81 8, 73	+2.32 -2.19 -1.80 +1.85	3.50 1.32 0.97 3.50	0 0 0 0	12 9 12 12	27 13 	0 13 	4 5 		Perry C. Quattlebann. D. C. McCall. Wm. B. Gillespie, a Henry C. Savage.
Florence 1	Plorence	136 136 82 54 68	49 16 13 49 6	83. 2 *84. 0 83. 6 483. 2	+1.9 +2.9 +3.2	102 *107 102 d 102		68 -62 -67 -466	†12  17 12 12	29 *43 28 d31	6. 76 5. 83 4. 43 6. 80 5. 44	+0.92 -0.01 -2.81 +0.28	2.00 1.87 1.60 1.75 1.77	0 0 0 0	13	23 18 5 21 12	6 13 21 3 14	2 0 5 7 5	sw. sw.	H. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Mrs. Ellen Seott. Alden F. Schell.
Mars Bluff	Florence Horry Orangeburg Berkeley Smater	192- 30 264 54 97	15 84 17	83.1 •79.3	+2.9 +1.1	100	 † 3	67 °72	†12 †11	27	5, 14 3, 72 3, 97 3, 88	-2.92 -2.87 -3.22	1.90 1.03 1.75 1.01	0 0 0 0	11 11 8	15 14	15 0	1 17	SW. St.	Rosa R. Davis. Myrtle Beach Invest. Co. U.S. Fisheries Station. Miss E. P. Ravenel. Julian H. Ayeoek.
Society Hill	Darlington Darchester Sumter Swater	192 75 169 249 24	40 33 7 41 42	*81.8 83.3 82.6 82.4 83.6	+2.2 +3.4 +2.9 +3.0 +3.0	*101 104 102 101 105	30 2 2 2 2 7 2	65 68 66 67 64	†12 12 12 †12 †12 16	*30 29 29 28 35	7.09 7.94 7.21 5.46 3.77	+0.70 +0.92 +2.12 +0.38 -3.48	2.30 1.80 1.70 1.48 2.04	0 0 0 0	12 14 8 10	21	6 13 21 10 2	8	w. sw. se. w. sw.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extromes			83.0	+2.8	107	7	62	17	43	5, 63	-0.70	3.50	0	11	16	10	5	sw.	
i. Western Portion.																	1		e.	9
Aiken Aiken Aikerson Bhairs Cesars Head ## Calliona Falls Canden	Alken Anderson Fairfield Greenville Abbeville Kershaw	527 764 293 3118 508 222	69 38 26 7 32 81	83, 6 81, 8 72, 6 83, 0 82, 9	+3.5 +2.3  +3.0 +2.6	102 99 89 102 100	† 2 3 †18 3 †18	67 65 58 67 68	26 27 11 11 11 †12	28 29  24 29 28	2.30 3.39 5.01 7.66 6.78 2.32	-2.77 -1.80 -0.22 +1.54 -3.05	1.81 1.40 2.00		9 6 13 9	10		16	w.	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Casar's Head-P. Mtn. Co L. M. Parker. Henry A. Brown.
Catuwba Chappells Cherokee (near) Chester Chenson College Columbia	York Newberry Spartanburg Chester	562 402 758 487 850 351	9	79. 6 81. 9 82. 8	+3.7	100	† 2 2	62 65 67	22 †11 26	33	5.34 9,20 3.05 2.64 5.55	-0, 47 +3, 98 	3 10 1.24		127	28	ii	17	sw.	James C. Faris. William Spearman. Spartanburg Water Work J. C. Cornwell. Prof. F. H. H. Calhonn. H. S. Weather Bureau.
Crescent. Due West Edgetield Ellenton Gaston Shouls II.	Spartanburg Abbeville	630 711 76 680	5 17 18	81.9	+2.7	99	3	68	27	26	8. 43 3. 94 5. 62 2. 03 2. 99 4. 38	-1.12 -0.41 -1.66 -0.98	1.62 0.55 1.31			5	:::		sw,	Duke Power Co. 11. S. W. B. Aerological St. Agent C. and W. C. Ry. A. A. Foreman. Southern Public Utilitles U. S. Wenther Bureau.
Greenwood Heath Springs Kershaw Landrum	Greenwood Lancaster Kershaw	. 671 . 568 . 506	47 29 15 16	81. 5 82. 4 80. 2 83. 0 81. 8 *82. 7	+3.3 +1.1 +3.6 +4.3	101 99 100 103	1 2 18 2	62	12	30 30 29 24	4. 35 4. 03 5. 16 3. 87 7. 10	-0.86 -0.98 -0.46 -2.97 +1.98	1.36 0.96 1.30		0 11 0 10 0 12 0 8 0 11	1 17 3 2 9	18 18 19	14 15 9	s. w.	M. M. Calbonn, J. Marvin Bowers, John W. Hamel, R. Hartwell Wilds, D.D.S L. G. Roff.
Laurens Little Mountain Newherry Peizer Salmda Santnek	Newberry Newberry Anderson	. 711 . 502 . 850	38 27 27 27 29	82. 1 82. 6	+2.1	103	2 2	66	12	31 31	5.53 5.94 7.78 5.10	+0.58 +1.28 +2.48 +0.08	3. 20		0 10 0 10 0 10	16	18	3 2	sw.	Miss Alberta Sease. John H. Baxter. Joshua V. Jones. B. B. Blease. E. W. Jeter.
Spartanburg Trenton Walhalla Winnsboro Winthrop College ‡‡	Spartaulurg Edgelield Oconee Fairtield	. 82- 620 . 1061	38 1 31 5 37	*80. 4 88. 2	+1.1 +3.2 +3.4	1 b 101 1 t 99 1 10/	31 118 2 3	59 66 66	2	1 h29 132 3 31 2 33	3, 62 8, 59 5, 45	-2. 34 +3. 4 +0. 33	1.0° 1.3° 7.4.2° 3.1.6°	7 5	0 1	1 8 8 15 4 7 10	5 11 2 10 7 2 0 2	8 8 8 8 1 8 1 0	se. se. sw. s.	U. S. Weather Bureau. Mrs. S. E. Long. II. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
	extremes	1		81. 82.								1			0 1 0 1	1	- 1	- 1		

The departures from the normal temperature and precipitation are computed only for such stations as have ton or more years of record, but all complete reports are used in determining section or division means. Reference letters (4, 8, 9), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. f Also on other dates. Hereevied too late to be included in means are considered in means are considered in means are considered in means. The considered readings of the days hallo means are considered meanings. Heat-open as the means are considered meanings. Heat-open as the means are considered meanings. The considered meanings are as follows: Of Gaston Shoals, Blacksburg; of Winthrop College, Rock Hill; of Fergison, Entawylle; and the college of Beaufort (near), Burton. § Observations taken from dry bulb thermometer at 7 a.m., 3 p.m. and 10 p.m. T. Precipitation is less than 60 inch of a form melted show.

### ERRATA.

June, 1931.—Charlotte, N. C., Miscellaneous Data, page 21, greatest 24-hour precipitation should be 1.64, with note, "Part of May 31."

Daily Precipitation for July, 1931.

Stations.	Drainage-														1	Day	of m	- 011t)	h.											_			
Stations.	basins.	1	2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	28	21	25	26	27	28	29	80	31	Tota.
Kastern Portion. fort(near). k ville	Const	.01	. 89	T.	. 70 . 10 3 1. 52 . 58 6 . 03	. 58	21.24			. 26	56	1.00		T.	Т.					T. . 22 . 92	. 23	. 06	T.	. 55			.51	. 10 T.	.04	T.			3, 85 4,22 6, 88 6, 13 8, 93
ington       : ghum       : uson       : nice 1    : nice 2    : ett	Pee Dee. Lynches. Santee. Pee Dee. do. Savannah	 61 T.		.31	.26 .25 1.28 .12 T.	1. 32 · 84 1. 40 2. 00 1. 87	. 10			. 28 . 37 . 03 . 24 . 20	. 61 . 36 . 05	.32 T. .85	. 02		. 10					. 67	.04	.02	.14 .52 .22				T. .06 .31 .02 T.	.11				. 12	3, 32 4, 31 8, 73 6, 76 5, 83 4, 43
stree	Black. Pee Deedo. Const. Edisto. Conper.			15	1.53 .41 .18	1.55 1.77 1.90	1.75 .97 .82	. 05	i. 13	. 35	. 30	.62	. 15 T.							. 81	. 16	. 17	. 12			. 81	.35	. 52	. 40	.51			6.80 5.44 5.14 3.72 3.97
ni       ty 11i1       nerville      er efield ssce     fetern Partion,	Saulee Pec Dee. Ashley Wateree do Ashepoo	.90		.71 T.	1. 22	. 15 2. 30 1. 18	. 25 1, 95 . 55			1. 01 . 08 . 52	 38 1.28		. 34 i. 7i			::::				1.15			.75 .08 .08			 1. 70	. 10 . 25 . 53 . 27 1, 45	.10	.34	.05			3.88 7.09 7.94 7.21 5.46 8.77
rson 	Kdisto Savannah Brand Saluda Savannah Wateree			.33	.31	. 15 1. 81 . 37 1. 06 . 48	.93	.05	.25	. 02	.40	1.03	. 14	1.40		1. 20 .30	. 32		. 09		T. .30 .63	. 59 1. 10 . 25	. 32 . 05 . 93 . 51		.67	. 90	.24	. 09	.55 .	.60	Ť.		2, 30 3, 39 5,01 7,66 6,78 2,32
seils	Catawba Suluda Broad do Savannah Cangaree Enoree	. 12	T.	 .85 T.	. 53 . 53 . 05	. 53	2. 33 .78 T			. 23	. 41	.84	.53	 	.21	. 12 T.			::::	.04		.08	. 07			. 14	.78 1	.02	.53				5.34 9.20 3.05 2.64 5.55 8.43
Cest*** ield	Savannah Savannah Savannah Broad Sahida do Wateree	.03	T 21	. 15	.50 .06 1.31 .06 1	. 91 . 45 . 48 . 05	1. 12	. 46		T. .39 	. 50	. 03 . 1. 20	42	.29	T. 1	. 27	. 10		.27 		.33	.45	. 62	. 02 .	.06 .	. 01	.11	. 05	. 82 .	.04 .			3.94 5.62 2.03 2.99 4.38 4.35 4.03
nav     Inn Is Monutain Try	Lynches Broad Saluda Saluda Saluda Saludadado	T .		. 04	. 67 . 29 . 37 . 42 2	. 52	. 17 . . 67 . . 42 .			i	.06	.11.		.31 .	23	. 69	.39		. 12	15 1 	.30	.26	.15 .39 .20 .34 .72			T. 1	. 96 . . 90 . . 15 . . 57 . . 80 .	.28 .					5. 16 3. 87 7. 10 5. 53 5. 94 7. 78
nburg *** on	ltroaddo Edisto	1.00	. 70	T. 1	1.00	. 14 .91  .04 .	.15	.83	:::		. 04 T.	T .07 .	55 . 80 .	. 66	.02 .70 .35	T T	т.		. 39 .	Г. 12	.28	. 55 . . 27	. 18 . 18 . 80 . 51			11.	40 47 27 21	. 10 .	11			T. 05	5.10 5.90 6.43 3.62 8.59 5.45
op Callege					.06	70 20 t	.95	:: :	i	. 40	.15	. 16			54	.05	.02 .				. 25	.27	.51			4.	27	10 .					8.59

scept us atherwise inflicted, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of ervation. III Precipitation measured in the morning: uncount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station: precipitation is for the our period, midnight to midnight. \* Precipitation included in the next following measurement. ISeparate dates of falls not recorded. T. Trace, or less than 0.91 inch.

COMPARATIVE DATA FOR JULY.

**************************************																				
**************************************		Te	mperati	ıre.	Precip			days.	ber of	- Fe .		. Te	inperatu	ıre.	Precip	itation.	Averag		ber of	ing irec-
82.0 110 69 7, 49 14	eur.	Mean.	Highest.		Average.	Average days with 0.01 inch or more.	Clear.	art	Cloudy.	reva wind	Year.	Mean.	Highest.	Lowest.		Average lays with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail! wind di
		78. 9 79. 4 77. 9 78. 0 77. 7 79. 5 80. 0 80. 0 81. 2 80. 0 81. 4 80. 4 79. 4 80. 4 79. 4 81. 4 80. 4 79. 4 81. 8	108 102 104 93 102 104 100 102 105 107 105 104 102 107 103 106 101 100 100	58 51 56 56 56 57 54 54 57 56 62 56 56 56 56 56	3. 68 7. 13 6. 88 5. 95 7. 44 4. 17 5. 01 7. 81 4. 08 4. 59 3. 59 5. 96 6. 16 8. 40 5. 43	8 13 12	13 8 10 10 13 10 12 14 12 15 18 13 13 5 13 12	14 12 15 18 19 10 11 11 12 11 19 12 10 17 18	6 8 6 11 8 6 7 5 4 6	SW. SW. SW. SW. SW. SW. SW. SW. SW. SW.	1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1922 1923 1925 1925 1925 1925 1927 1927 1928 1929 1929 1929 1929 1929 1929 1929	79.8 79.6 81.9 80.0 80.9 77.8 77.5 79.3 78.9 79.6 79.6 79.6 77.8 81.5 80.5 77.8 81.5	102 109 107 106 99 102 103 108 102 101 104 103 106 108 104 106 108 100 100 100	58 56 53 55 60 52 50 51 58 60 51 58 60 51 58 60 58 58 57 56 45 56 58 58 58 58 58 58 58 58 58 58 58 58 58	3.79 5.22 4.78 5.16 3.26 6.56 5.00 7.44 4.50 6.93 8.86 6.24 4.50 6.81 4.35 4.35	13 10 11 9 9 8 8 17 12 11 13 11 14 13 9 12 6 10 13 11 10 9	12 14 15 14 18 5 14 13 13 13 19 12 15 14 14 12 15 16 18	15 13 10 9 13 10 12 9 9 9 9 9 9 13 13 13 13 13 13 14 11 11 11 8 8 12 11 11 12 13 13 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	7 6 7 7 7 4 4 3 14 8 7 10 8 9 6 8 8 8 5 7 8 8 8 7 7 8 8 8 8 8 8 8 8 8 8	SW. SW. SW. SW. SW. SW. SW. SW. SW. SW.

						aily	Te	mpe	rati	ires	for	Jul	y, 1	188	1.												_ 3
	-				1				1		14	15	16	17	18	19 2	0 21	22	28	24 2	5 26	27	28	29 3	81	Mea	an i
Stations. 1	2	3	4	5 6	7	8	9	10	11 1:	2 1 13	119	10	1.0	-	1		1	1 1	1		1	-	1	T	T	1	
Eastern Portion.		1			1								١.	1.			95 1	01 90	07	98	87	91 9	0 96	96	93 75	98	93.7
	94 10	2 9.	98	98	98 103 77 7 96 9	95	89 73	90 72 90	90 69	90 69	70 :	00 9 72 6	9 7	4 9 7	5 9:3 7:3 8 10:2 7:0 9:6 7:0 9:7 9:7 9:7 9:7 9:7 9:7 9:7 9:7	8 93 5 74 1 98 1 72 3 93 8 76 9 96 4 73 9 95 1 71 98 93 75 71	76 99	01 90 74 73 95 94 74 71 98 95 95 96	97 73 95		87 73 93 72 89 74 95 71 92 72 91 71	91 9 71 7 92 9 69 6	0 96 1 72 0 98 9 70 6 86 2 77 5 97 0 92 6 69 6 69 72 72 73 74 75 77 76	96 75 99 70 88 76 100	75 102	98 76 99 75 89 79 01 75 95 74 100	93.7 73.3 94.7
	94 10 75 7 96 10	5 10	1 96	74 91 74	98 107 77 77 96 9 74 7 96 9 79 8 88 9 75 7	7 98 3 74	89 71	90 71	88 70	89 67	90 70	91 9 72 7	3 7	2 7 4 9 0 7 1 9 5 7	2 7	1 72	76 92 72 91 76 95	74 71 98 94	70 90	78 91	72 89	69 6 84 8	9 70 6 86	70 88	102 78 91 79 101 1	70 89	71. 9 89. 9 75. 9 95. 4
Blackville (Minimum   Maximum   Maximum   Charleston (Minimum	90 10 78	1 8	€ 92 5 74	91 76	74 7 96 9 79 8	9 90	85 75	86 74	87 70	72	77	79 7	6 9 7 7 66 9	0 7 1 9 5 7 7 10	6 7	8 76 8 96	76 95	78 77 95 96	73 97	78 91	74 95	78 7 92 9	5 97	100	101 1	01	95.4
Maximum	99 10	2 9	6 92 5 74 5 90 8 75 0 97	83 75		99 76	92 74	92	88 72 90 69	70	73	74	73 7	0 7	3 7	4 78 9 95	73 96	74 7	70 96	94	92	92 9	0 92	05	97 78	95 74	94.0
tonway Maximum	72	6 7 11 8 14 7 12 9 18 7 16 7 16 7 17 7 17 7	0 97 3 72 6 94	83 75 90 73 89 74	95 10 72 7	3 95 7 77 7 98 8 74 9 90 0 77 9 99 4 76 60 95 66 98 72 78	78 89 71 85 75 92 74 86 72 86 73	86 74 92 74 87 72 87 70	69	69 89 67 88 72 96 70 93 71 92 67	90 70 87 77 96 73 90 71 92 71	72 691 9772 77886 886 88779 774 774 775 770 971 971 971 971 971 971 971 971 971 971	78 7 94 9 67 7 91 9 72 6	0 7 05 9 70 7 02 9 69 7	00 9 78 7 99 9 70 7 97 9	1 71 98 93	73 96 72 92 73	74 73 95 94 74 71 98 95 78 77 95 96 97 97 74 77 94 9 75 7	95 70 90 73 97 70 96 70 95	73 93 78 91 78 91 74 94 73 89 72	91	84 8 78 7 92 9 72 7 92 9 71 6 98 9	6 86 2 77 5 97 0 72 0 92 6 99 6 95 77 70	71 05 71 97	75 97 78 99 1 74	76	78.8 94.0 71.5 98.5 72.0
Darlington M   Maximum	97 1	77 7	6 94 5 78	89 74	90 8				1 1		- 1				71		- 1			1 1	- 1	- 4		1 1	100	101	- 6
Maximum	05 1	01 9	08 98 74 73	93	94 9	98 97 78 75 97 96 74 74	88	91 71 89 71 89 71 89 70 89 70	93 70 93 70 95	93 69	96 70 92	95 70 92 71 95 70 92 71 94 69	96 9 70	94 1 66	97 10 71 5 71 97 7 71 60 62 98 71 100 1	01 98 78 74 98 94 78 70 05 100 70 72 98 95 74 74	97 73 95 72 99 70 95	93 9 74 7 95 9 78 7 100 9 70 7 96 9	2 95 8 70 2 95 2 71 6 98 1 97 2 97 3 71 3 98	90 74 90 72 96 70 98 78 98 78 92 73	93 73 90 71 92 70 92 73 93 71	95 67 98 68 95 70 93 70 93 70	00 96 59 71 71 7 93 94 69 69 93 97 69 92 9 67 6	96 70 98 71 8 95 95 98 98 98 98 72 97 8	72 99 74 100	74 98	95.2 71.7 94.6 71.9 *97.8 *70.1
Florence 1   Minimum   Maximum   Maximum   Minimum   M	73 100 73	75 02 76 06 1	08 98 74 77 98 10 76 76 04 9 75 7 95 9 74 7	93 74 97 3 73 5 100 4 72 4 92 1 73 8 91 2 72	70	07 96 74 75	88 72 86 78 86 78 93 77 87 78 87 78 78 78 78 78 78 78 78 78	89	70	68	68	71	70 91 72 95 70 91 71	66 95 70 95 1 65 94 70 95 1	71 7	78 70 05 100	72 99	78 77 70 70 70 75 75 75 75 75	2 71 6 98	72 96	71 92	68 95	93 9	95	100	76 100	a97.8
Garnett Maximum	] 1	06 1 75	04 9 75 7	5 100 4 72	101 1	50 70	9:	3 70	70	65 93	71	70 92	70 91	65 94	62 98	75 70 05 100 70 72 98 95 74 74	70 95	70 7 96 9	2 97	98	92	93	98 9	6 98 2 72	100	100 75	94.1
Kingstree Minimum	00 1	77	75 7 95 9 74 7	4 92 1 73	93 1 73 93 71	07 10: 70 76 00 9: 75 7 98 10 78 7	7	88 1 70	70 89 70 90 68	95 65 93 67 92 66	68 94 71 92 71 93 70	71 94	71 95 70	70 95 1	71 00 1	CO	73	75	. 98	8 92 7 73	93	23 70	69 7: 92 9 67 6	5 97 8 70	70 100 74 100 74	75 99 75	72. d95 d71.
Marion Maximum	74 98 1	77	96 9 74 7	8 91 2 72	71	78 7	4 7	1 70	68	66	70	69	70	69	71	78							::::::	:			
Myrtle Beach   Maximum				:			-[					98	91	99	96	97 96	92	95	01 9	5 91	90	92	87 9 70 7	94	96	97	98.
Ocangeburg   Maximum	94 78	100	99 9	3 89 4 75 90 89	92 74	97 9 78 7 100 8	7 9 6 7	8 9 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1 91 2 72 1 90	90 67	92 72 94 69	98 72 98 69	78	92 70 98 67 94 69 93 70 93 70	96 73 97 70 95 69 97 73 94 72	97 96 72 74 93 95 75 65 98 96	92 73 98 71 93 6 73 6 73 6 73 4 92 4 72 7 94 3 71	95 75 98 72 96 74 95 74 96 74	05 8	9 91	90 78 89 69	92 67 94 67 90 72 89 68 90 67 92	91 5	[5] 93	74 101 72 97 75 97 74 96 96 74 98 72	97 76 98 73 94 75 95 76 95 76 95 76 95	98. 72. 93. 69. 94. 72. 93. 72. 95. 71.
Society Hill M   Maximum		76 98 70	73	4 71	711	1001 8	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3 7 1 9 0 6 6 9	9 67	65	69	69	78 96 70 88 72 92 72 92 72 92	67 94	70 95	98 98	93	72 96	92 9	9 72 6 98	91	90 72	65 65 89 70 89 70 91 91 93 70	58 67 55 95 73 71 50 94 72 76 94 96 70 66	97	94 75	94. 72.
Summerville M   Maximum	97 71	104 75	97 75	8 92 74 74	96 74	98 75	4 7	4 7	2 71	68 90	71 91	72 91	72 92	69 93	69 97	71 76 98 98	5 94	95	92 9	5 89	92	89 68	89 70	90 94 72 76	97	95 76	93.
Sumter Maximum	69 97 71 96 73 96 78	104 75 102 76 101 75 105	96 74 98	78 74 92 92 75 74 92 88 78 72 00 96	96 74 92 73 96 73	70 98 75 97 78 94 78	0	88 8 70 7 87 8 70 7 92 9	3 91 2 71 8 88 6 71 8 89 8 68 9 9	66 92	91 71 91 72 92 78 98 70	90 72 91 72 92 78 92 72	92	93	78 94	71 76 98 98 73 7- 95 9 74 7 98 9 71 7	4 92 4 72	93	93 9	2 7: 05 89 70 7: 04 8: 70 7: 75 9 70 7:	91 73 92 78 78 90 8 73 91 91 71	90 67	91 5	92 95 71 70	96	70	92. 71.
Wedgefield Maximum Minimum	96 78	75	7.1	78 72 00 96	73 100	72 105 1	2	70 7 92 9	8 68	67	73 98	73 92	92	94 64	94 68	98 9	7 94 3 71	96 74	94 78	75 9 70 7:	1 91 2 71	52 72	93 70	70 6	72	75	71,
Yennssee Maximum	70	74	1 <sub>00</sub> 1	74 71	74	71	76	72	60 6	8 67	10	12	"										-				1
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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

% Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 8-26-31-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

M. XXXIV. COLUMBIA, S. C., AUGUST, 1931.

### GENERAL SUMMARY.

Temperatures averaged near the normal, and precipitation, the whole, was considerably below the average.

The weather was generally favorable for growth of all ops, with timely rains in most sections until the last week; t there was some complaint locally of insufficient moisture. tton was generally matured by September 1, and the early p was opening to the northern border; but picking and ginig were slow on account of economic conditions; the first e was ginned at Allendale on the 4th, or 7 days carlier in normal. The peavine and native hay harvests began out the 25th. The cantaloupe season closed about the 20th, I tobacco curing ended about the 25th. Tree fruits, grapes, ck of all kinds, generally of good quality, were on sale oughout the month, but peach offerings were reduced durthe last week.

### PRESSURE

The mean sea-level pressure, determined from reports of 9 ular Weather Bureau stations in and surrounding the Secn, was 30.05 inches. The highest pressure was 30.37 inches at e West on the 15th; the lowest pressure was 29.65 inches at arlotte, N. C., on the 10th, and in the Section proper, 29.69 hes at Columbia on the same date.

### TEMPERATURE.

to 9° above normal. The lowest temperature was 50° at low water at Chappells and Columbia. sar's Head (mountain station) on the 13th and 23d. The l periods were from the 11th to the 14th and 22d to the 24th, mal.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 ular Weather Bureau stations in and surrounding the Sec-1, was as follows: 8 a.m., 86%; noon, 60%; 8 p. m., 75%. 2 highest percentages occurred in the west-central sections, I the lowest, along the coast.

### PRECIPITATION.

The average for the Section, 54 stations reporting, was 4 inches, or 0.89 inch below normal. Precipitation was stly intermittent until the 23d, followed by relative dry ther. The total monthly amounts were very badly disouted as to areas, with 5 to over 10 inches in the north-tern counties and in Dorchester, upper Greenville, and per Spartanburg Counties; at Cheraw, a total rainfall of 4 inches was recorded in 48 hours from the 20th to the 22d; ewhere, the measurements ranged downward from 4 to less n 2 inches. The greatest local monthly amount was 10.45 inches at Marion; least local monthly amount, 1.84 inches at Anderson and Spartanburg. The greatest 24-hour amount at any station was 5.04 inches at Cheraw on the 20th and 21st The average number of rainy days was normal. Moderate hail was reported from Kershaw on the 5th, and light bail at Charleston on the 27th.

Windsquall .- At North Charleston, about 6 p. m., 27th, during a thunderstorm; damage to roofs of buildings, trees, and outhouses estimated at about \$1,500.

Death by Lightning .- Mr. Ernest Eubanks, near Swansca. afternoon of 6th; two other persons were badly shocked.

Damage by Lightning .- About 1:00 p. m., 21st, near Trenton, small barn fired by lightning and burned, with contents, including a cow and calf; loss about \$250.

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was 5.2 miles. The highest velocity for any 5-minute period was 38 miles per hour from the southwest at Greenville on the 12th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 251.9 hours, or 61% of the possible amount. The average number of clear days was 13; partly cloudy, 10, and cloudy, 8, as against normals of 13, 11, and 7 days, respectively.

### RIVER CONDITIONS.

Extraordinary rainfall in the upper reaches of the Pee Dee Basin on the 20th and 21st was followed by a freshet at Cheraw on the 22d and 23d, with moderate flood stages later in the month at Mars Bluff and Poston; the losses approximated The monthly mean for the Section, determined from re-ts of 41 stations, was 78.2°, or 0.6° below normal. The hest temperature was 105° at Cheraw on the 2d. The rm periods were from the 1st to the 5th, 8th to 10th, and the 18th, inclusive, and on the 30th. Otherwise, the rivers of h to 20th, when the daily mean temperatures ranged from the Section maintained nearly normal stages, except rather

### MISCELLANEOUS PHENOMENA (dates).

I periods were from the 11th to the 14th and 22d to the 24th, en the daily mean temperatures renged from 5° to 13° below Solar: Charleston, 25; Columbia, 3, 25, 26; Spartanburg, 19, 29. Solar: Charleston, 25; Columbia, 17, 25, 26; Due West, 17,

 26, 27; Greenville, 19, 27; Spartanburg, 18, 19, 26.
 Fog, dense.—Blackville, 13; Calhoun Falls, 8, 9; Columbia, 16; Due West, 8, 13, 16; Mars Bluff, 8, 15, 16, 30, 31; Pelzer, 13; Sumter, 30, 31; Walhalla, 21; Winnsboro, 7.

### MISCELLANEOUS DATA FOR AUGUST, 1931.

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Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns
Asheville, N. C Angusta, Ga Charleston, S. C Charlotte, N. C. Columbia, S. C. Due West, S. C Greenville, S. C. Savanuah, Ga. Wilmington, N. C. Means and ex-) tremes.	30.06 30.04 30.06 30.05 30.05 30.05 30.05 30.05 30.06	72.0 80.2 80.0 77.0 79.2 77.0 76.8 81.2 78.5	92 101 91 96 96 97 96 97 94	50 59 63 58 58 57 57 62 61	4. 01 4. 54 4. 93 8. 13 2. 20 3. 88 4. 46 3. 23 5. 53 4. 55	0.87 1.72 1.18 2.57 1.27 1.19 2.39 1.52 2.96	4. 1 3. 7 7. 7 3. 0 4. 8 5. 3 5. 4 8. 4 4. 8	nw. s. sw. sw. sw. ne. w.	92 85 81 86 85 87 82 84 88	56 55 76 60 56 59 56 60 60	78 69 82 71 70 77 84	52 60 69 55 67 63 67 57 63

## Climatological Data for August, 1931.

					Clima	tolog	ical ?	Data	for	Aug	gust,	1931.			_	_				
			rd.	T	emperat	ture, i	n degr	ees Fa	hr.		Preci	ipitation	, in inc	hes.	Num	ber c	of day	gs.	direction	PS
Stations.	Counties.	0	Length of record,	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	With precipition (0.01in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observets.
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section division means. Reference letters (e, b, c), appearing in the nulle indicate number of days missing; for example, because the day but it means are compared to the complete section of the property of the complete section of the complete section of the property of the complete section of the comp

Daily Precipitation for August, 1931.

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	Vateree  Catawba Sahida Broad do Sayamah Congaree	.39				1, 56 .68 .23	1, 10 .88 .45	т.	.32	.42		2. 13 . 15 . 57	.81 .46 .47	.18	.01	.48	.04		.03	.77	.02	2.20 .01 .48	.85 .05 .22	.16			.60			ii.			9.58 8.42 3.71 1.88 2.20 6.20
1	Congaree Enoree Savannah Savannah Broad Sahida do Wateree	.55			.21	.40	.79 .48 1.29	.01	1.01	::::	.04	.91	.02	.08	.31	. 08 1. 01 . 28	T.		. 40		T .21	.04	. 15	.02 .48 .16	.26				Т.				3.88 3.56 4.03 2.73 4.46 4.71 6.64
prings y n n nuntain y	Wateree		2. 2 T.	.10 .04	 .23	.03	1.02 .16 .11	.17			1. 55	.89 .82 1.11 1.19	1. 27 . 61 . 08 1. 98	. 53	3	.33 .38 .11 .10			. 27 . 12 . 19	. 29	.63	. 53	. 81 . 05 . 06 . 08	.08				, 18		.10			6.77 6.54 3.26 4.28 2.52 3.42 2.19
burg *** a pro      up College	Brouddo			. T	T.	.22	. 36	75 T.			. 58	2. 47	. 30	2 .08	1.60	.32		:::	87	.0	ı	1. 05 1. 05 1. 05 1. 05	. 20	.06				Т.	.04	T.	T.		9.74 1.84 3.40 3.74 6.43 9.08

COMPARATIVE DATA FOR AUGUST.

THE PARTY AND TH	iling direc	er of	e numb	Average		Precipi	re.	mperntu	Te		ling lirec-	ber of	e num days.	Averag	itation.	Precip	ire.	mperatu	Te	
77.8 101 49 6.54 111	Preva wind	Cloudy.	Partly cloudy.	Clear.	n s e	Average.	We	ghe	Меап.	Year.	reva	Cloudy.	Partly cloudy.	lea	ys ver	ver	Lowest.	Highest.	8	ar.
	ne. sw. sw. sw. sw. sw. sw. sw. sw. sw. sw	8 66 77 77 95 66 111 94 4 33 4 4 97 77 77	15 8 9 15 11 10 10 7 11 12 10 8 11 9 9 7 10 10 11 12 10 10 8 11 11 10 10 10 10 10 10 10 10	10 16 16 9 11 16 15 20 14 8 14 12 11 18 21 17 17 17 17 18	12 9 9 13 14 8 8 8 7 7 9 14 10 11 12 6 4 7 7 9 12 7 7	6. 05 3. 69 3. 76 5. 88 7. 62 3. 27 3. 23 4. 45 5. 08 4. 14 5. 07 7. 44 4. 34 10. 22 3. 18 2. 48	51 54 52 56 52 58 49 52 53 56 56 56 54 53 53 55 59	104 104 104 101 102 100 102 106 103 100 102 98 101 105 109 98 101 105 109 98 101	80. 0 79. 2 78. 9 79. 0 78. 8 79. 6 78. 5 80. 2 76. 4 79. 3 80. 4 79. 4 79. 4 79. 4 77. 5	1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1929. 1929. 1929. 1929. 1929. 1929.	SW, Sel SS. SW. SW. SW. SW. SW. SW. SW. SW. SW.	12 8 8 8 5 9 12 8	9 13 14 12 9 11 11 11 9 14 10 9 9 8 8	100 100 9 144 143 8 8 122 21 15 7 7 14 15 15 12 15 7 13 3	11 10 12 9 13 13 11 13 7 7 9 18 10 0 5 15 15 12 12 12 14 11 11 15 9	4. 53 6. 37 4. 25 8. 79 4. 42 12. 45 7. 28 7. 28 7. 26 4. 14 5. 81 6. 26 2. 13 9. 01 5. 07 7. 15 8. 69 8. 60 8. br>80 80 80 80 80 80 80 80 80 80 80 80	50 45 51 55 59 57 55 55 55 57 57 57 57 60 60 54 46 60 60	102 97 96 98 96 97 102 101 105 102 99 99 103 106 97 104 105 102 107 104 105 102 107 100 101 105 106 107 107 108 109 109 109 109 109 109 109 109	77. 8 74. 4 77. 1 78. 9 79. 5 77. 9 79. 4 80. 4 78. 0 78. 7 81. 2 83. 0 78. 6 77. 9 80. 6 77. 9	

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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

% Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 9-25-31-900

## CLIMATOLOGICAL

No. 9

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

OL. XXXIV. COLUMBIA, S. C., SEPTEMBER, 1931.

GENERAL SUMMARY.

Precipitation averaged close to the lowest September rainll of 1919, and the month was one of nearly maximum

ssible sunshine and prolonged heat.

Persistent dry weather, with only widely scattered showers da prolonged period of excessive heat, was favorable for ying and cotton development, though the heat and abundant ushine caused considerable premature boll opening in many ctions; picking and ginning have continued slow for the sean incident to the economic situation. Sweet potatoes and anuts were practically matured about the middle of the outh, and the peach season closed during the first week. The ought materially affected all late crops and pastures, and fall owing and seeding have made very slow progress on account hard, dry soil. Truck and fruits were marketed in season, d watermelon sales practically ended about the close of the onth.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 gular Weather Bureau stations in and surrounding the Secm, was 30.07 inches. The highest pressure was 30.52 inches at heville and Charlotte, N. C., on the 30th, and in the Section oper, 30.51 inches at Due West on the same date; the stages prevailed during the month. th, and in the Section proper, 29.72 inches at Columbia on e same date.

### TEMPERATURE.

The monthly mean for the Section, 41 stations reporting, s 77.5°, or 3.0° above normal. The highest temperature s 107° at Blackville and Garnett on the 18th. A heat wave evailed practically from the 2d to the 26th, inclusive, when daily mean temperatures ranged from 5° to 16° above rmal during the major portion of the period. The lowest operature was 40° at Clemson College on the 28th. The cool riod was from the 27th to the 30th, inclusive, with daily ean temperatures ranging from 5° to 12° below normal.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 mlar Weather Burean stations in and surrounding the Secn, was as follows: 8 a.m., 82%: noon, 54%: 8 p. m., 66% e highest percentages occurred along the coast, and the vest, in the interior.

### PRECIPITATION.

The average for the Section, 54 stations reporting, was 8 inch, or 3.14 inches below normal. Precipitation was iformly below normal at all stations, with but a few small as having 2 inches or more and a very extensive area hav-tless than 1 inch. Rainfall occurred in three short periods. e greatest local monthly amount was 3.27 inches at Beaufort ear); least local monthly amount, Trace at Newberry. The l

greatest 24-hour rainfall at any station was 2.01 inches at Greenville on the 25-26th. The average number of rainy days was 57% below normal.

Death by Lightning .- 26th, near Greer, in the Gilreath Mill section, Mergie Brown, young daughter of Mr. and Mrs.

Grover Brown; 3 other children were shocked.

Damage by Lightning. - Midnight to early morning, 26th, near Anderson, several barns were fired by lightning and burned, with contents, including seed, cotton and trucks; damage, about \$10,000.

The prevailing wind was from the east. The average hourly velocity, determined from 9 anemometer records, was 5.8 miles. The highest velocity for any 5-minute period was 28 miles per hour from the west at Savannah, Ga., on the 26th, and in the Section proper, 26 miles per hour from the east at Charleston on the 19th, and from the west at Greenville on the 2d.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 298.9 hours, or 81% of the possible amount. The average number of clear days was 21; partly cloudy, 6, and cloudy, 3, as against normals of 15, 8, and 7 days, respectively.

### RIVER CONDITIONS.

The up-State streams were generally below normal, particularly at Chappells and Columbia; otherwise, fair river

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 24, 25: Columbia, 25. Solar: Charleston, 13; Columbia, 13; Greenville, 24.

Fog, dense.-Blackville, 1, 15; Catawba. 15: Charleston, 16; Cheraw, 14, 15; Columbia, 1, 14, 15; Kershaw, 14, 15; Mars Bluff, 1, 11, 12, 13, 14, 15, 16, 22; Spattanburg, 26; Trenton, 1, 13, 14, 15; Winnsboro, 13, 14, 15; Yemassee, 15. 16, 21, 22.

July, 1931.—Blackville, maximum temperature and date, page 26. should be 105 on 2d.
August, 1031.—Cropped 11. August, 1931.—Greenville, greatest 24-hour precipitation, pages 29 and 30, should be 2.37 inches.

### MISCELLANEOUS DATA FOR SEPTEMBER, 1881.

	. sea		perati ces F		tio	ipita- n. hes.	Win 3-cup A		re	lear dativ	re	e of pos-
Stations.	Barometer level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p.m.	Percentage of po
Asheville, N. C., Augusta, Ga., Charleston, S. C., Charlotte, N. C., Columbia, S. C., Due West, S. C., Greenville, S. C., Savannah, Ga., Wilmington, N. C., Means and ex., tremes.	30. 09 30. 06 30. 06 30. 08 30. 07 30. 10 30. 07 30. 05 30. 09	71.0 80.1 78.7 77.0 78.6 77.5 77.1 79.2 76.8	91 104 98 98 99 99 97 100 98	38 52 56 46 52 48 51 56 52 38	1. 12 0. 40 2. 08 1. 15 0. 56 0. 84 2. 62 1. 25 0. 12 1. 13	1.00 0.34 1.07 0.82 0.82 0.40 2.01 0.46 0.12	5 1 3.9 8.8 3.4 5.4 6.1 6.0 8.7 5.2	nw. se. e. s. s. s. sw. n. e. sw.	87 85 83 79 80 79 75 86 82 82	52 57 67 48 45 52 51 61 54	68 58 77 58 55 57 77 76 66	72 82 82 82 88 81 81 70 87

Climatologica) Data for September, 1931.

				C	limate	logica	l Dat	ta fo	or S	epter	mber,	1931.						_		
			01111	T	empera	ture, in	degree	es Fai	nr.		Precip	itation.	in inc		Num	ber	of da	ys.	direction	
Stations.	Countles.	on, feel	years.	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipition (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
Eastern Portion.		1		1						day	0.07	-1.91	1, 75	0	3	17	11	2	9.	Mrs. R. L. Fripp.
Beaufort (near);; Blackville Cinclestou	Beaufort Baruwell Charleston	296 48	50 47 60	479. 6 80. 2 78. 7 78. 2	+2.3 +4.3 +2.1 +4.6	107 98 101	19 18 18 18	51 56 44	30 †29 28 30	<sup>4</sup> 31 38 23 38	3.27 1.74 2.08 0.56	-1.91 -2.55 -2.45 -3,19	1.20 1.07 0.34	0	5	14	16	2 0 5	е.	U. S. Weather Bureau. Roland D. Powe.
Cheraw Conway Darlington	Horry	25 175	49 41 36 40	76. 8 77. 6	+1.8 +2.9	101 102	18 18	50 46	†28 30	38 87	0. 20 0. 45 0. 18	-4.87 -3.98 -4.40	0.20 0.35 0.11	0	2 2	26 25		3	se.	Perry C. Quattlebann. D. C. McCail. Wm. B. Gillespie. Henry C. Savage.
Effinguaut Fergusonii	Florence Orangeburg Florence	106 63	45	78.0	+3.3	102	18	50 48	†29 30	38 35	1.47 0.44	-2.75 $-3.87$	0.33		2	28 26		0 2	sıv. e,	11. K. Gilbert. Pec Dee Experiment Sta.
Florence 1	llamptan Wiffiamsburg	136 82 54 68	16 13 49 6	*79.2 79.2	+2.0 +4.3	*107 103	18 18	*50 49	†28 30	*47	0.57 1.71 1.44	-3.74 -4.58 -2.91	0.52 1.00 1.44		0 4	24 25	6	0 1	s.	Mnner B. Robert. Mrs. Eilen Scott.
Mars Bluff	Florence	92 30 264 54 97	8 15 84 17	77.0 79.2 <sup>h</sup> 72.8	+8.4 -1.5	97 101 94	18 18 17	50 51 52	29 29 †28	81 35	0. 22 1. 00 2. 12 0. 25 0. 29	-2.40 -4.44 -5.04	0.25		0 1 0 2 0 5 0 1 0 2	14	11	0 5 1	e.	Rosa R. Davis. Myrtle Beach Invest. Co. U.S. Fisheries Station. Miss E. P. Ravenel. Julian H. Aycock.
Rimini Society Hill Summerville Sumter Wedgedeld Yennssee	Darlington Dorchester	192 75 169 249 24	40 33 7 41 42	78.0 77.8 78.4 78.4	+2.5 +2.9 +4.1 +2.6	102 100 100 100	18 18 18 18	49 48 48 47	29 29 30 29	37	0.80 0.24 0.20 1.45 0.29	-2.73	0.24 0.20 1.05		0 2 0 1 0 1 0 3 0 6	2 2 2 2 2	6 4 7 3 4 1	000	se.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and				78.0	+2.7	107	18	44	30	47	0.95	-3.69	1.75		0 2	2	2 6	2	2 e.	
Western Portion,																		1		
Aiken Anderson Bluirs Cesars Head# Calhoun Falls	Fairfield	527 764 293 3118 508 222	82	79. 4 77. 5 67. 8 79. 2 77. 3	+4.6	90 102 102	18 24 24 18 18	51 49 41 50 49	30 30 128 128	34	0.87 2.25 1.28	-1. 49 -2. 89	2   0.3   0.5 8   0.4	7	0 0 0	1 2 1 5 1 8 2	18 0 14 2 11 8 20 1	2   · 3   i	2 e. W. 1 W.	Henry A. Brown.
Camden Catawba Chappells. Cherokee (near) Clemson College Columbia	Vork	562 402 758 850 351	25 26 3 39	75. 2	+4.7	98	†18 18 18	41 40 52	30 25 25	8 44	1.50	-2.5	3 0.5 0.4 3 0.8 9 0.3	1 9 8 2	0 0 0	5	8	6 1	1 sw.	Prof. F. H. H. Calhonn U. S. Weather Bureau.
Crescent Due West Edgefield Ellenton Gaston Shoafs 11 Greenville.	Spartanburg Abbeville Edgefield Aiken	. 76 680	17 18				18	48	2		1. 1 0. 4 1. 8	-3.0 -1.9 8 7 -1.6	7 1.1 . 0.4 5 0.9	0 8	0 0 0 0	6 1		8	4 sw.	U. S. W. B. Aerological
Greenwood Heath Springs Kershaw Landrum Laurens	Greenwood Lancaster Kershaw Spartanburg	. 671 . 569 . 500 . 1063	29 n 15 8 16	75. 77.	1 +2.0 3 +2.1 2 +4.1	100 101 2 99	19 18 18 18 †22 18	45 42 44 42 46	2	30 4 30 3 30 3 30 3	5 0.9 3 1.0 7 1.1 7 0.7	2 -2.4 6 -2.5 4 -3.6 -3.6	18 0.1 73 0.1 59 0.1 38 0.1	18 35 35 39	0 0 0	3 2 5 3	18	0 5 2 5 7	9 W. 7 e. 8 W. 2 n W. 0 W. 1 Se.	J. Marvin Bowers. John W. Hamet.
Little Mountain Newberry Peizer Suludu Santuck	Newberry Anderson Saluda	. 50 85 . 53	2 27 0 27 6 29	78.	2 +3. 0 +3. 8 +3.	0 108 4 *102 2 101	24 18 18 18	44 45 46 42	· · · · · · · · · · · · · · · · · · ·	29 4	66 T 2.6 12 0.6 14 0.1	-3. -3. -3. -3.	45 1. 92 1. 0. 55 0.	10 43 06	0 0 0 0 0	5 8	22	8 9	4 e. sw 0 e. 4 sw	John H. Baxter. Joshua Y. Jones. B. B. Blease. E. W. Jeter.
Spartauburg Treutou Walhalla Wiunsboro Winthrop College	Oconee	62 106 54	0 3	8 79. 1 75. 7 78.	6 +4. 5 +3. 2 +4. 2 +3.	9 100	†17 †17 †20		8 1 7 4	30 3 30 3 30 3	32 1. 6 11 0.9 11 1. 6 39 1. 6 36 0.	$\begin{vmatrix} -2. \\ -4. \\ -2. \\ -4. \\ -2. \\ -2. \end{vmatrix}$	76 0. 09 0. 61 1. 96 0.	94 56 01 45	0 0 0	1 1 1 3	28 25 16	7 4 13 10 6	0 se 1 sv 1 se 0 s.	Rev. Oliver Johnson. W. T. Clawson.
Division means at Section means at	extremes	O.		77.				1	1	- 1	44 1.	1		01	0	3	21	6	3 e.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more yars of record, but all complete reports are used determining section or division means. Reference letters (s, b, c), appearing in the table indicate number of days missing, or example, b represents two days missing, et determining section or division means. Reference letters (s, b, c), appearing in the table indicate number of days missing for example, b represents two days missing, et determining section or division between the day of the dry bulb; means are considered from observed readings. If the eview to on late to be included in means and summaries. "Temperature data are from Winthron College, Rock till; of Ferguson, Entavyling putted from observed readings. If 1964 only of Cesar's Black, Green'thele of Beaufort (near), Burton. \$Observations taken from dry bulb thermometer at 7 a. m., 3 p. m. and 10 p. m. Tercepitation is less than 0.0 frain or melted snow.

Daily Precipitation for September, 1931.

	Draimage-			11   29																													
Stations.	busins.	1	2	s	4	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	81	Tota
Eastern Portion.	Coast					.29					Ĭ	J					1						Т.			1, 23		1.75					8.27
kville	Edisto				. 11									. 28	.10											. 05	T.	1.20					1.74
leston ***	Const			1.04	. 03				, lt				. 01	.81											T.		T.						0.56
www.																																	0.20
Ington III	Pee Dee	l			. 10																						. 35						0.45
gham	Lynches				.11				. 07																		T.	T.					0.18
ence III	Snatee Pee Dee				Т.															!	• • • •						1.47			• • • •			0.44
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except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of servation. Ill Precipitation measured in the morning; amount their recorded is for the preceding 24 hours. \*\* Regular Weather Bureau station; precipitation is for the hour period, undulight to threight the included in the next following measurement. Separate dates of falls not recorded. Terrac, or less than 0.01 incl.

COMPARATIVE DATA FOR SEPTEMBER.

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	Te	mperntn	ire.	Precip	itation.	Averag	e num dnys.	ber of	illing direc- on.		Te	mperatu	re.	Precip	itution.	Averng	e num days.	ber of	ling firec.
Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind c	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevaili wind dir
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Kershaw ( Minimum		61	67 7	2 6	2 66 7 90	1 96	70 95 66	88	68 92	95	92 63 97 72	65 97 63	64 92 63	655	98	67 88 66	96	72 98 74	75 87 70	88	98	99	99 68	71 95 70	96 65	88 69	82 56	75 52	75 7	15	: 3
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Winthrop College / Minimum.	• • •	65	66	68	60 E	65	68	62	60	64	60	0)	1 6:	1	, ,		" "	1	1	1											1

Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

M Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 10-26-31-900

### OF THE U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL, DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

OL. XXXIV. COLUMBIA, S. C., OCTOBER, 1931. No. 10

### GENERAL SUMMARY.

Precipitation averaged a little more than one-fourth the ormal, and temperatures ranged considerably above the rerage

The drought which began in September became intenfied incident to the scant rainfall in October, and all farm perations have been materially retarded by unfavorable plowg, sowing, and germinating conditions. However, most aple crops, except late eorn and late forage, had matured, classes making progressed favorably during the month, and mile long; the movement was from northwest to southeast. reet potato digging proceeded. Vegetable offerings were renced in quality and quantity as the month progressed. Soakg rains were needed to facilitate necessary fall work and to reenish wells, springs, and streams, which had become low.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 gular Weather Bureau stations in and surrounding the Secn, was 30.13 inches. The highest pressure was 30.58 inches at heville, N. C., on the 1st, and in the Section proper, 20.55 thes at Due West on the same date: the lowest pressure was th and at Wilmington, N. C., on the 16th.

### TEMPERATURE.

The monthly mean for the Section, determined from rerts of 41 stations, was 65.9°, or 2.3° above the normal. The Section were much below normal during the month. thest temperature was 98° at Garnett on the 11th. The rm periods were from the 3d to 16th and from the 21st to th, inclusive, when the daily mean temperatures ranged m 5° to 15° above normal. The lowest temperature was at Santuck on the 19th. The cold periods were from the santuck on the 19th. The cold periods were from the santuck on the 19th. The cold periods were from the santuck on the 19th. The cold periods were from the santuck on the 19th. The cold periods were from the santuck on the 19th. The cold periods were from the santuck on the 19th. The cold periods were from the santuck on the 19th. The cold periods were from the santuck on the 19th. The cold periods were from the santuck on the 19th. The cold periods were from the santuck on the 19th. The cold periods were from the santuck on the 19th. Pat Santuck on the 19th. The cold periods were from the to 19th, inclusive, and on the 31st, when the daily mean operatures ranged from 5° to 11° below normal. Killing kis occurred at a few up-State stations on the 18th, 19th dataset. d 31st.

### HUMIDITY.

The mean relative lumidity, determined from reports of 9 ular Weather Burean stations in and surrounding the Secn, was as follows: 8 a.m., 78%: noon, 45%; 8 p.m., 53%, a highest percentages occurred along the coast, and the est, in the north-central interior.

### PRECIPITATION.

The average for the Section, 54 stations reporting, was 0 inch, or 2.17 inches below the normal. The amounts e fairly well distributed in three periods. But four stais had 2 inches or more during the month, and the amounts re less than one inch in three-fourths of the Section, while major portion of the coastal plain had less than one-half

inch, with two stations having no measurable rainfall. The greatest local monthly amount was 3.06 inches at Caesar's Head; least local monthly amount, Traces at Conway and Effingham. The greatest 24-hour rainfall was 1.88 inches at Florence No. 1 on the 15-16th. Light hail occurred at Santuck on the 10th. The average number of rainy days was 40% below normal.

Damage by Lightning and Hail.—The public school building at Gramling was damaged about \$2,000 by a bolt of lightning after nightfall on the 9th, but there was little or no loss by fire. About 9 p.m., 12th, a hailstorm, beginning south of Honea Path and extending into Greenwood County beyond Due West, damaged outstanding crops about \$6.000; the path was about 12 miles in length and averaged about 4,000 yards in width

Tornado. - A small tornado visited the Fort Mill section at Indicate the close of the month, but ginning was rather backward.

Indicate the formula form the first many and formed were formed to the first many and formed with the close of the month, but ginning was rather backward.

Indicate the formula formed with the first many and formed to the first many and fo jured; the path was about 1,300 yards wide and nearly a

The prevailing wind was from the northeast. The average hourly velocity, determined from 9 anemometer records, was 5.7 miles. The highest velocity was 30 miles per hour from the northeast at Due West on the 9th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 273.6 hours, or 78% of the possible amount. The average number of clear days was 21; partly 66 inches at Greenville, S. C., and Charlotte, N. C., on the cloudy, 6, and cloudy, 4, as against normals of 18, 6, and 7 days, respectively.

### RIVER CONDITIONS.

On account of greatly deficient rainfall, all rivers of the

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Columbia, 28; Spartanburg, 27; Wal-

### MISCELLANEOUS DATA FOR OCTOBER, 1931.

	r, sea	Tem: degr	perati ees F	ure, ahr.	tio	ipita- n, hes.	Win 3-cup A		re	dear dati midi	ve	tage of pos-
Stations.	Barometer,	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage c
Asheville, N. C Augusta, Ga Charleston, S. C. Charlotte, N. C. Columbia, S. C. Due West, S. C Greenville, S. C Savannah, Ga Wilmington, N. C. Means and ex	30. 16 30. 11 30. 11 30. 13 30. 13 30. 17 30. 18 30. 10 30. 13	58. 8 68. 3 70. 0 65. 0 67. 5 65. 2 65. 8 70. 6 67. 0	84 90 85 90 89 88 87 87 85	30 40 48 39 42 38 39 46 44	0. 49 0. 40 0. 71 1.26 0. 53 1. 45 1. 06 0. 34 0. 50	0. 26 0.37 0. 32 0. 54 0. 39 0. 54 0. 81 0. 20 0. 36	5. 0 3. 7 8. 6 3. 1 5. 0 6. 2 5. 9 9. 2 4. 7	nw. nw. ne. sw. ne. w. ne. e.	. 84 85 76 76 75 66 83 78	42 48 55 43 39 40 44 58 44	58 55 74 52 44  50 71 71	65 83 82 81 84 80 78 69 80
tremes	81.08	66.5	90	30	0.95	0.81	5.7	ne	78	45	53	78

### Climatological Data for October, 1931.

				Clima	tologi	cal Da	ata for	Octo	ber,	931.						_	<u> </u>	
		record.		Tempera	mre, in	degree	s Fahr.		Precip	itation.			Numi	er of	day	s.	g direction wund.	
Stations.	Counties.	Elevation, feet. Length of receivens:	Mean.	Departure from the normal.	Highest.	Date.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevalling dir	Observers.
Eastern Portion.  Beaufort (near) 11 Binck of the Conway Darfington Efficient Forence 1. Forence 2. Garnett. Kingstree. Marion Mars Bluff. Myrtle Beach Orange burg Phonopils Rintill Society Illil Smunnerville Smunter Wedgo, deld Yennissee.  Division means an	Busileston Chesterfield Ilorry Darlington Plorence Omngehurg do do Hampton Williamsbury Marion Florence Horry Orangehurg Berkeley Sunter Darlington Dorchester Sunter Namer Ilampton	30 264 1 54 8 97 1 192 4 75 1 169 249 24	65.2 66.3 66.3 66.3 66.3 66.3 67.4	+4.7 +2.4 +3.0 +1.3 +2.6 +1.9 +2.2 0 +1.5 2 +2.5 -6 6 +2.2 -1 +1.9 +2.2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	*90 92 85 93 89 94 89 92 98 94 *93 91 90 90 89 98	† 5	38 48 38 48 38 38 48 38 48 38 48 38 48 38 38 38 38 38 38 38 38 38 38 38 38 38	31 31 33 33 33 33 34 33 31 44 31 9 5 5 3 31 45 3	1. 60 0. 27 0. 75 0. 20 0. 20 0. 20 0. 10	-3. 03 -2. 87 -1. 16 -1. 86 -2. 06 -2. 55 -2. 7 -2. 00 -2. 7 -2. 00 -2. 7 -2. 00 -2. 2 -2. 00 -2. 2 -2. 00 -2. 5 -2. 00 -2.	0. 32 0. 42 T. 0. 83 T. 0. 14 0. 12 1. 60 0. 19 0. 20 0. 10 0		2 0 2 1 1 3 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 1 1	22 25  21 29 23 27  28 21  29 19 25 27 27 27 27 21	9 11 8 0 4 2 7 1 1 6 6 4 6 6 5	0 4	w. ne.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews I. S. Weather Burean. Roland D. Lowe. Perry C. Quattlebaun. D. C. Metall. What Brillespie, Henry C. Savage. II. K. Gilbort. Pee Dee Excellespie, Henry C. Savage. II. K. Gilbort. Mrs. Ellen S. Whilden. Rosa R. Davis. Myrte Beach Invest. Co. II. S. Fisheries Station. Miss E. P. Ravenel. Julian II. Aycock. E. D. Fields, Jr. Clemson Coast Exp. Sta Simiter Water Dept. W. Hampon Ramsey W. C. Hutson.
Western Partion.  Alken Anderson Description Cesars Head W. Calloon Fails Candet Charbells Charbells Cheroke (near) Cleuson College Columbia Crescent Line West Edgeded Ellenton Gastau Shoals II. Greenwood Heath Springs Kershaw Landrun Laurens Little Mountain Newberry Pelzer Salada Santuck Spartanburg Trenton Wailinila Winnsbor Winthrop College Ulvision means Section means	Anderson Patrileid Anterson Patrileid Anterson A	764 293 8118 508 222 562 462 462 462 462 463 711 76 680 1039 611 568 500 1043 502 503 504 680 1043 680 1044 680 1044 680 1044 680 1044 680 1044 680 680 680 680 680 680 680 680 680 680	92 66 66 66 66 66 66 66 66 66 66 66 66 66	1.2 +2.6 1.6 +2.5 1.1 +2.1 1.1.8 +0.1 1.2 +2.1 1.3.8 +5.5 1.4.4 +2.1 1.5.2 +2.1 1.5.2 +2.1 1.5.4 +4.2 +2.1 1.5.5 +2.1 1.5.6 +2.	81 92 94 94 9 9 889 89 89 89 89 89 89 89 89 89 89 8	6 6 6 7 6 6 7 7 6 6 6 6 2 0 7 5 6 6 6 6 2 2 6 6 6 6 7 7 6 6 6 7 7 7 7 7	34 34 35 28 35 36 37 39 33 9 28	31 20 19 19 19 19 19 19 19 19 19 19 19 19 19	88 1. 0. 0. 1. 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12	11 0.2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	2 9 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6772	3 W	H. H. Russell. Saral L. Owens. Cassar's Hersell. Cassar's Hersell. Cassar's Hersell. Herry A. Brown. James C. Faris. William Spearman. Sylvanter Water Work Froi. F. H. H. Callboim. H. S. Weather Bureau. Duke Power Co. Cassar W. E. Aerological St. As A. Foreman. Southern Public Utilities U. S. Weather Bureau. M. M. Callboim. J. Marvin Bouers. John W. Hamel. R. Hartwell Wilds, D.D.S. L. G. Roff. Miss Alberta Sease. John M. Jamete. John H. Baxter. John W. Jamete. John H. Baxter. John W. Jones. B. B. Blease.

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, \*, \*, \*), appearing in the table indicate number of days missing; lor example, \*\* represents the data are from observed readings of dry bubb. neans are complete. The Received too late to be included in means and summines are from observed readings. Plostoffice addresses of these stations are reported too observed readings. Plostoffice addresses of these stations are reported by the property of th

June, 1928.—Summerville, pages 22 and 23, total precipitation should be 6.11.

Annual, 1928.—Summerville, page 51, total precipitation for June should be 6.11, and total annual amount should be 62.68.

Daily Precipitation for October, 1931.

								Dai.	ly J	Prec	ipit	ati	011 1	101	001	ODC.	, ,	00.														- 1	_
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nt as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of auton. If Precipitation measured in the morning; amount then recorded is for the precipitations. "\*\* Require Weather Bureau station; precipitation is for the precipitation included in the next following measurement. Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR OCTOBER.

	Ter	mperatm	re.	Precip	tation.	Averag	e num days.	ber of	iling direc-		Te	mperatn	re.	Precipi		Averag	days.	her of	ling direc
r.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clea	Partly cloudy.	Cloudy.	Prevai wind	Vear.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Preval wind
	61. 4 59. 3 60. 8 63. 0 60. 2 63. 8 64. 4 61. 3 61. 3 65. 8 62. 9 64. 2 67. 6 62. 4 64. 2 61. 2 62. 0 64. 2 61. 2	91 88 88 99 92 89 90 98 95 91 96 92 93 93 93 93 93 93 99 99	30 31 27 22 25 27 25 28 28 35 28 35 28 29 20 24 26 29 24 28 35 26 29 24 28 28 28 28 28 28 28 28 28 28 28 28 28	5.96 4.18 1.65 4.06 1.63 0.60 4.92 4.95 1.15 1.41 3.23 3.82 5.00 3.65 0.89 4.40 2.63 1.10 1.97 3.69 0.73 4.22	55 3 4 4 5 5 9 9 9 3 3 7 7 5 5 3 6 6 5 5 6 6 5 5		77 66 77 8 8 8 8 7 7 7 6 6 6 6 6 7 7 6 6 5 5 6 6 6 5 5	6 5 4 4 8 9 9 100 111 3 7 7 3 100 111 5 6 6 3	n. sw. n	1910. 1911. 1912. 1913. 1914. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1922. 1923. 1924. 1925. 1928. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929. 1929.	60.5	100 99 94 95 92 93 92 90 93 101 92 90 94 99 89 98 98 98 98 98 98 98 98	22 37 32 26 26 27 31 22 25 27 31 29 28 26 26 32 32 32 32 32 32 32 32 32 32 32 32 32	4. 39 5. 89 2. 21 3. 56 3. 44 4. 95 2. 53 0. 76 1. 79 5. 57 1. 14 3. 25 1. 91 7. 31 2. 18 0. 80 0. 2. 97	68 5 6 8 8 5 5 4 5 5 5 2 4 8 4 2 8 5 5 4 5 6 5 5 3 5	20 12 18 19 13 16 23 31 15 11 18 18 18 24 4 21 18 18 19 21 17 17 17 20 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	7 9 4 6 7 7 7 7 7 5 5 8 10 4 4 4 5 5 6 6 8 5 5 6 6	4 10 9 6 11 6 8 3 8 8 8 7 7 5 6 6 8 7 7	ne. ne. ne. ne. ne. ne. sw. ne. sw. ne. ne. ne. ne. ne. ne. ne. ne. ne. ne

						D	ail	Te	emp	era	ture	s f	or (	Oct	ober,	1	931	•	_	_		_	_	_		1	_	_	1		_	
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Bestera Portion.  Beaufort (near).   Maximum   Minimum   Minimum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Minimum	811 864 866 860 677 855 481 844 848 851 877 864 866 866 866 866 866 866 866 866 866	52 81 55 85 55 88 68 87 52 86 48 81 54	78 58 60 60 77 61 50 82 60 77 77 62 81	81 61 88 62 62 67 90 56 88 57 90 57 91 56 88 57 90 86 88 88 88 88 88 88 88 88 88 88 88 88	87 61 92 60 82 71 93 56 88 91 56 88 86 58 90 60 60 57 91 88 61 88 85 88 85 88 88 88 88 88 88 88 88 88	84 65 90 82 68 88 88 80 94 61 87 60 93 86 87 60 94 61 82 87 63 60 94 61 62 85 86 86 86 86 86 86 86 86 86 86	85688 682 70 9 57 850 859 0 5 8 5 9 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8	666 83 68 81 71 88 63 83 64 88 63 88 63	86 86 88 66 88 67 86 86 86 86 86 86 86 86 86 86 86 86 86	61 75 64 78 54 80 58 79 55 85 60 81 80 85 80 85 80 85 80 85 80 80 80 80 80 80 80 80 80 80 80 80 80	56 77 62 81 47 49 49 84 51 84 84 84 84 85 86 86 87 88 88 88 88 88 88 88 88 88	90 5 5 2 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5	58	8226867 8657 8657 8657 8657 8657 8657 8667 867	90 64 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	18 18 16 16 16 16 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	55 80 48 74 56 73 47 77 45 75 50	51 71 44 67 53 68 41 68 40	71 50 70 89 69 571 32 63 78 44 71 83 78 64 69 73 44 68 85 67 73 46 86 73 46 87 74 87 87 87 87 87 87 87 87 87 87 87 87 87	77 52 50 44 76 56 58 57 74 70 77 78 76 76 76 76 77 76 76 77 76 76 77 76 76	82 551 585 585 585 585 585 585 585 585 585	550 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	55 56 56 57 57 57 57 57 57 57 57 57 57	82 56 2 2 5 7 8 4 4 8 2 5 5 7 8 4 4 8 2 5 5 7 8 4 5 4 8 4 5 5 7 8 4 5 7 6 6 6 6 7 8 4 7 8 4 7 8 7 6 6 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8		77 46 78	79 61 81 44 475 557 880 880 880 880 880 880 880 880 880 88	81 535 560 660 482 47 82 47 82 47 82 47 49 82 50 50 84 84 85 86 86 86 86 86 86 86 86 86 86 86 86 86	79 66 79 66 79 78 55 78 66 79 66 83 79 68 79 79 79 79 79 79 79 79 79 79 79 79 79	76 51 76 76 76 76 76 76 76 77 76 76 76 77 76 77 77	69 46 68 66 68 66 68 66 67 72 87 72 87 86 68 86 67 87 72 87 88 68 68 68 68 68 68 68 68 68 68 68 68	65 85 57 68 8 4 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8
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### U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

THE MANAGE OF THE

## CLIMATOLOGICAL

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

L. XXXIV. COLUMBIA, S. C., NOVEMBER, 1931.

### GENERAL SUMMARY.

The month had the lowest November average rainfall of ord. Thermal conditions ranged high above the monthly rage, with a prolonged heat wave from the 9th to the 30th. The prevailing drought was further aggravated by over o weeks of dry weather, and light and insufficient rains fell two short periods after the 17th. In consequence of hard. soil, winter ecreal sowing and germination were backward d irregular, all vegetation was badly parched, and fall and nter vegetable offerings were materially reduced. Cotton hough checked somewhat by light showers later in the days, respectively. onth. Woods were practically bare by the 25th.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 ular Weather Burean stations in and surrounding the Secu, was 30.24 inches. The highest pressure was 30.54 inches at ie West on the 27th; the lowest pressure was 29,90 inches at arlotte. N. C., on the 30th, and in the Section proper, 29.92 thes at Greenville on the same date.

### TEMPERATURE.

The monthly mean for the Section, determined from rerts of 43 stations, was 58.8°, or 5.0° above the normal. The shest temperature was 87° at Darlington on the 21st. The rm periods were on the 4th and 5th and from the 9th to the th, with daily mean temperatures ranging from 5° to 20° ove normal. The lowest temperature was 21° at Santuck on e 7th. The cold periods were from the 1st to 3d and from e 6th to the 8th, with daily mean temperatures ranging from to 12° below normal. The line of freezing temperatures vaneed southward over the central counties about the 7th, th few exceptions.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 gular Weather Bureau stations in and surrounding the Secm, was as follows: 8 a.m., 80%; noon, 53%; 8 p. m., 65% ne highest percentages occurred along the coast, and the west, over the central counties.

### PRECIPITATION.

The average for the Section, 55 stations reporting, was 54 inch, or 1.75 inches below normal, and the lowest avage November rainfall of record. Precipitation was confined two short periods after the 17th, and the measurements reuniformally below normal. But two stations reported tals of 2.00 inches or more, and in considerable areas of the iddle and eastern sections and the coastal plain the amounts ere less than one-tenth inch. The greatest local monthly

amount was 3.34 inches at Caesar's Hoad 5 least local monthly amount, 0.00 inch at Aiken. The greatest amount during any 24 hours was 1.55 inches at Darlington on the 28th. There was no snowfall. The average number of rainy days was 40% below normal.

### WIND.

The prevailing wind was from the northeast. The average hourly velocity, determined from 9 anemometer records, was 5.6 miles. The highest velocity for any 5-minute period was 26 miles per hour from the northeast at Charleston on the 26th and from the southeast at Savannah, Ga., on the 20th, and from the south at Asheville, N. C., on the 20th.

### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 autoking was generally finished by the 15th. Springs, wells, and matie records, was 206.9 hours, or 66% of the possible eams were unusually low, and replenishing rains were anx-usly waited. Forest fires and much smoke were prevalent, cloudy, 5, and cloudy, 7, as against normals of 17, 6, and 7

On account of another month of greatly deficient rainfall, all streams were remarkably low throughout the month.

### MISCELLANEOUS PHENOMENA (dates).

Killing Frosts or Freezing Temperatures.—1st, 3 stations; 2d, 4; 3d, 1; 4th, 1; 7th, 7; 8th, 2; 30th, 3.

Halos—Lunar: Columbia, 15; Due West, 15, 24; Greenville, 15; Spartanburg, 15, 24; Walhalla, 16. Solar: Columbia, 15, 19; Due West, 15, 25; Greenville, 2, 13, 15; Spartanburg, 15.

Fog, dense. - Blackville, 17, 29, 30; Calhoun Falls, 27, 30; Landrum, 19, 29, 30; Laurens, 28, 29, 36; Marion, 7, 15, 30; Mars Bluff, 15, 16, 17, 22, 23, 24, 25, 27, 29, 30; Myrtle Beach, 29; Pelzer, 29, 30; Santuck, 28, 29, 30; Spartanburg, 18, 19, 21, 28, 29, 30; Sumter, 19, 29, 30; Trenton, 8, 16, 17, 23, 24, 27, 28, 29, 30; Walhalla, 29; Winnsboro, 20, 21, 28, 29, 30; Yemassee, 15, 29, 30.

### MISCELLANEOUS DATA FOR NOVEMBER, 1881.

				_							- (	-
	sea	Temp			Preci tio inc	n,	Win 3-cup A	d. nem.	re	lean lativ	e	sunshine.
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible sunsi
Asheville, N. C Angusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga Wilmington, N. C.	30. 26 30. 22 30. 22 30. 24 30. 24 30. 26 30. 23 30. 20 30. 25	53, 4 60, 8 63, 0 58, 8 00, 6 58, 6 59, 0 64, 4 61, 4	75 84 79 81 83 80 80 81 82	22 32 42 31 33 35 36 40 37	0. 43 0. 19 0. 53 0. 42 0. 52 0. 54 1. 02 0. 04 0. 15	0. 17 0. 15 0. 28 0. 21 0. 36 0. 24 0. 36 0 03 0. 12	6. 2 3. 0 7. 4 3. 5 4. 7 6. 0 6. 1 8. 8 4. 8	se. nw. n. s. ne. sw. re. ne. ne.	86 88 78 82 75 80 74 81 80	50 51 57 62 44 50 58 57 51	63 60 77 66 52 59 70 71	52 76 66 66 68 65 64 69 70
Means and ex-	30, 24	60. 0	84	22	0. 43	0.36	5 6	ne	80	53	65	66

### Climatological Data for November, 1931.

					Climat	tologi	ical I	ata	for I	Nove	mber,	1931.	•							
			record,	1	empera	ature, i	in deg	rees F	ahr.		Precia	itation,	in inc	hes.	Nun	bero	of da	ays.	ction	
Stations.	Counties.	n. fee	Length of re-	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	(frentest daily range.	Total.	Departure from the normal.	Grentest in 24 hours.	Total snowfall. unmelled.	With precipition (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Kastera Partion.																			. /	
Beaufort (near);; Blackville Charleston Cheraw	BeaufortBarnweilCharlestonChesterfield	21 296 48 144	50 47 60 49	62.8 59.8 63.0 58.2	+3.9 +4.2 +4.9 +6.2	81 83 79 85	†17 14 13 13	38 34 42 29	† 7 1 8	35 42 26 49	0.20 0.05 0.53 0.21	-1.91 -1.98 -1.61 -1.98	0.10 0.05 0.28 0.21	0 0 0 0	3 1 4 1	20 15 17	8 11 8 	2 4 5 	9. n.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway Darlington Effinghum Fergusou <sup>‡‡</sup>	Darlington	25 175 106 63	41 36 40 45	60.0 *58.9 58.3	+5.4 +5.9 +3.3	84 87 86	13 21 17	29 *27 27	7 8 8	47 *45 	0.05 1.55 0.51 0.02	-2.21 $-0.56$ $-1.59$ $-2.12$	0.05 1.55 0.39 0.02	0 0 0 0	3	22 20 	2 3 	6 7 	se.	Perry C. Quattlebaum. D. C. McCull. Wm. B. Gillespie, Henry C. Savage.
Florence i	Williamsburg	136 136 82 54 68	49 16 13 49 6	60.3 d58.9 f0.1 b59.7	+€.2 +1.7 +5.2	86 86 86 85	26 14 †14 †13	29 d27 26 b23	8 † 1 * 8 † 7	47  454 50 648	0.70 0.70 0.02 0.18 0.84	-1.51 -1.51 -2.47 -1.91	0.70 0.70 0.02 0.18 0.67	0 0 0 0	1 1 1	21 24 18 22 17	4 2 7 1 8	5 4 5 7 5	w.	il. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Mrs. Ellen Scott Dr. Charles B, Whilden.
Mars Bluff	Orangeburg Berkeley	92 30 264 54 97	15 84 17	61.8 °59.8 54.6	+4.9 +0.3	84 *81 77	18 14 19	33 °30 29		 41 °40	0.71 0.04 0.54 0.09 0.51	-0.99 -2.34 -1.37	0.55 0.02 0.39 0.08 0.45	0 0 0 0	2 3 2	20 17 25	5 6 0	5 7 5	e. sw. ne.	Rosa R. Davis. Myrtle Beach Invest. Co. U.S. Fisheries Station. Miss E. P. Ravenel. Julian H. Aycock.
Society Hill Summerville Sumter Wedgelield Yemussee	Sumter	192 75 169 249 24	40 33 7 41 42	58.6 59.7 58.6 60.2 60.8	+6.5 +4.0 +4.5 +6.1 +4.9	86 84 84 83 84	13 14 †13 †13 †15	27 27 26 33 31	8 7 8 7 8	49 47 49 44 46	0.90 0.13 0.12 0.15 0.23	-1.35 -2.18 -1.94 -1.93 -3.07	0.90 0.13 0.12 0.15 0.20	0 0 0 0	1 1	23 18 22 26 19	2 5 3 1 8	5 7 5 3 3	w. ne. se. w. ne.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Dept. W. Hampton Ramsey W. C. Hutson.
	extremes			59.7	+4.7	87	21	23	† 7	54	0.39	-1.82	1.55	0	2	20	5	5	ne	
Western Portion.																				
Aiken Anderson Blairs Cæsars Head <sup>‡‡</sup> Culhonn Falls Camden	Fairfield	527 764 293 8118 508 222	69 88 26 7 82 81	62.0 58.5 51.8 60.1 56.5	+7.6 +5.9  +8.9 +4.4	84 82 73 82 84	14 †13  25 11 14	28 33 33 30	† 1 8 7 2 8	40 40 37 45 45	0, 00 0, 70 0, 22 3, 34 0, 08 0, 83	-2 54 -1.99 -2.03 -2.37 -1.51		000000000000000000000000000000000000000	5 1 4 1	23 17  9 13	1 3 11 6		ne. W.	Frank B. McCoy. 11, H. Russell. Sarah L. Owens. Cresar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawbn Chappells. Cherokee (near) Clemson College Columbia	York	562 402 758 850 351	25 26 3 89 45	54.6 57.5 60.6	+6.5 +6.6	82 86 83	13 13 13 13	24 28 33	† 7 † 3 8	50 51 37	0. 40 0. 75 0. 16 1. 48 0. 52	-2.05 -1.50 -1.38 -1.46	0.52 0.08 0.56	0000	3 7	28 3 17	0 5 5		nw.	James C. Faris. William Spearman. Spartanburg Water Works Prof. F. H. H. Calhoun. U. S. Weather Bureau.
Crescent. Due West. Edgefield Ellenton Gaston Shoals ††. Greenville.	. Abbeville Edgefield Aiken	630 711 76 680 1039	5 17 18 28 47	58.6	+6.1	80	13	35	8	38	0.85 0.54 0.08 0.18 0.45 1.02	-1.86 2.26 2.30 2.16	0.05 0.18 0.22	0	6 2 1 3		5		sw.	Duke Power Co. U. S. W. B. Aerological Str. Agent C. and W. C. Ry. A. A. Foreman. Southern Public Utilities U. S. Weather Burean.
Greenwood Heath Springs Kershaw Landrum Laurens	Greenwood Lancuster Kershaw	671 568 500 1063 589	15	57.6 57.9 59.0 57.4 58.1	+5.7 +6.0 +6.3 +6.5 +7.2	80 79 84 83 83	†14 †13 18 13 14	29 32 31 28 28	† 7 † 7 8 † 7 8	42	0.74 0.20 0.27 1.30 0.48	-1.93 -2.00 -1.78 -2.21 -2.42	0, 10 0, 18 0, 62		3 2 5	21	0 2 0 4 6	16		M. M. Calhoun, J. Marvin Bowers, John W. Hamel, R. Hartwell Wilds, D.D.S L. G. Roff.
Little Monntain	Newberry	850 536	27 29	59.8 59.0 56.5 57.0	+6.2 +6.5 +3.8 +6.0	84 84 86 86	14 14 14 17	20 27 22 21	7 8 6 7	48 56 53	0.37 0.46 1.06 0.21 0.26	-2.00 -2.15 -1.74 -2.28 -2.58	0.34 0.50 0.10		3 7 3 2	19	5 2 6	5	nw.	Miss Alberta Sease. John H. Baxter. Joshum Y. Jones. B. B. Blease. E. W. Jeter.
Spartanburg Trekton Walhalla Winnsboro Winthrop College †	Spartanburg Edgefield Oconec Fairfield York	620 1061 545	38 31 37	57.8 62.3 55.7 59.8 59.2	+5.3 +7.1	84	13 †13 13 13 13	30 84 26 34 80	† 7	39 45	0.58 0.25 2.27 0.21 0.44	4	0. 20 0. 64 0. 15 0. 25		2 8 3 3	17 17 16 18	7 6 5 7 6	7 8 7 6	sw. ne. ne. s	U. S. Weather Bureau. Mrs. S. E. Long. 11. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division means and Section means and	extremes					86	†13 21	21	1		1				0 4		5		1	
			1			1	1	1	1	1	1	1		1		1	1	1	1	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, \*, \*, \*), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. Also on other dates. If Received too late to be included in means and summaries. \*\* Temperature data are from observed readings of the dry bulb; means are completed readings of the dry bulb; means are considered in the construction of the construction of the construction of the construction of the construction are as follows: of Gaston Shoals, Blacksburg; of Winthron College, Rock Hill; of Ferguson, Entawyllic; for Casar's Head, Greenville; of Beaufort (near), Burton. \$0 bservations taken from dry bulb thermometer at 7 a.m., 3 p.m. and 10 p.m. T. Precipitation is less than 0.01 left of rain or melied stown.

### ERRATA

October, 1931.—Wilmington, N. C., Miscellaneous Table, page 37, prevailing wind direction should be north. Damage by Lightning and Hail, text, 4th line, page 37, date of haiistorm, Honea Path to Due West, should be 9th.

### Daily Precipitation for November, 1931.

Physics	Praimage-													-		Day	ol 1	nont	h.													-	
Stations.	basins.	1	2	3	4	å	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	28	21	25	26	27	28	29	80	31	Tota.
Eastern Portion.	Const		.]												j		Î	Í.	Ì.	İ	l <sub>T</sub>	1.10	02				. 0						0, 20
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eraw III	Pee Dee	1111																1.		. 0	1 .0		1 .28										0.58
uwas !!!	Wacennaw																					05		Ť.					. 21				0.21
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rs Bluff	do	1	1	1111					1										. 02		-18								. 67				0.84
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nini	Santee																						06						46				0.51
nety 1111	Pee Dee																												. 90				0.90
iiter	Ashley Wateree					1111					••••			• • • •		• • • •							. 13										0.13
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011	Edisto												- 1											1									
	Savannah													• • • • •	• • • • •	• • • • •					1.5												0.00
irs      ar's Hend	Brond																			. 00	1.10		. 10					. 05	04 .	• • • • •			0.70
houn Ealls ##	Broad Salnda Savannah			• • • •		••••														1.00	.70	. 59									.05		8.34
nden ##	Wateree																				1							. 08					0.08
awba ##	Cainwba										- 1											,40					• • • • •		. 38			***	0, 65
	Saluda	• • • • •					• • • •		• • • •			,								.11		. 14						T.	. 15 .				0.40
	Broad																			• • • • •									. 51 .				0.75
uson College																			10									.04	.06	Т.	.04 .		1.48
scent	Conguree Enorce											- 1	- 1		- 1				T									. 19	. 17 .		10		0.52
West***								- 3	••••					• • • •					. 44	. 03	. 02	. 06					.04	.14	. 12 .				0.85
	Savannah																		. 23	. 01	.07	. 03	. 02					. 18	T	1			0,54
nton	Savannah																				. 05								.03				0.68
to it Shouls	Brond																			10			200						. 18				0. 18
mwood ## ·····																			. 19	. 23	.09	. 32	16	ş	. 6	- 1		0.1	. 22		.06		1,02
th Springs																				. 12		.16	. 08 .					.03			.00		0.74
shaw J													• • • •						. 03	Т.		.07						. 10					0.20
	Lynches			,																		. 09				- 4			1	. 18			0.27
rems	Broad Saluda																		. 21	.24		. 12 .									62		1.30
e Manatain :	Saludi												::: -				• • • •		T	T.		. J.		- 4				. 33	. 02	T.			0.48
berry	Saluda																			1.		10				•••		. 23					0.37
er []]. da.	do																		T.	- 50	.06	.10	. 16 .		:			.06	.04	.04		!	1.06
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usboro ##	Broad														:::				. 25	.64		. 35							.03	.08	60		2.27
throp College	Catawba																		.08		••••			1.				30	.15 .	02 .			0.21
			- 1		- 1						1				- 1													. 20,					0. 32

Except us otherwise indicated, observations are generally made late in the afternoon, near sauset, and precipitation recorded is for the 24 hours ending at the time of servation. |||| Precipitation measured in the marning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; periodiation included in the next following measurement. Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

## COMPARATIVE DATA FOR NOVEMBER.

	Т	emperatr	ire.		itation.	Averag	e nnm days.	her of	fling direc-		Te	mperntn	ire,	Precipi	Intion.	Averag	e numi days.	ber of	ing rec.
Year.	Mean.	Highest	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di	Year.	Mean.	Highest.	Lowest.	Атегаде.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di
	52. 3 52. 7 54. 8 58. 4 51. 9 52. 9 52. 9 52. 3 54. 4 59. 1 55. 3 51. 0 65. 0 65. 0 65. 0 65. 0 65. 0 65. 3	78 82 84 82 86 87 83 88 82 86 89 90 89 86 80 89 88 88 88 88 88 88 88 88 88 88 88 88	18 22 18 15 14 15 17 21 26 23 14 22 22 22 22 22 22 21 20 22 21 20 22 22 22 22 22 22 22 22 22 22 22 22	0.82 2.77 3.84 0.64 2.48 1.96 2.11 2.02 2.35 4.00 1.99 4.72 2.41 3.32 1.01 3.80 0.40 2.78 1.30 1.40 2.78 1.60 0.97	5 4 6 7 7 5 5 6 6 5 5 6 6 3 3 3 10 3 3 3	14 18 12 12 16 14 16 13 21 13 14 17 17 18 12 16 18	87 78 88 77 66 68 84 47 77 88 66 66 88 77 10 9	8 5 10 100 7 7 10 8 9 5 10 8 7 7 4 4 11 4 3	nw.  w ne. ne. ne. ne. ne. ne. ne. sw. n. ne. sw. n. sw. sw. sw.	1910 1911 1912 1913 1913 1914 1916 1916 1917 1918 1920 1922 1923 1924 1925 1926 1927 1928 1928 1929 1928 1928 1929 1928 1929 1928 1929 1928 1929 1928 1929 1929 1928 1929 1928 1929 1928 1929 1928 1929 1920	51. 1 51. 2 52. 1 53. 5 52. 4 56. 3 54. 5 50. 4 53. 0 56. 6 62. 3 56. 6 52. 3 54. 4 50. 0 67. 2 52. 8 54. 7 50. 9 55. 8 55. 8	85 83 84 89 86 88 83 86 92 87 87 82 87 82 87 82 87 82 87 89 80 87 89 87 89 87 89 88 89 89 89 89 89 89 89 89 89 89 89	24 19 17 18 17 24 24 16 26 20 18 24 17 21 15 17 22 11 2 2 6	1. 04 3. 30 2. 71 1. 79 3. 33 2. 36 1. 21 0. 82 3. 13 0. 86 3. 62 3. 11 0. 61 2. 79 1. 35 3. 81 3. 81 3. 85 4. 35 0. 85 2. 29	4 8 4 2 6 4 4 4 4 7 7 3 6 6 7 7 7 7 5 5 3 0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	20 18 22 21 19 22 22 18 8 21 18 18 18 19 20 16 23 14 17 15 19 12 12 12 13	674544543644655455654556	4 100 4 4 4 7 7 4 4 7 7 5 5 9 6 6 8 11 1 8 9 6 6 14 13 7 7	W. ne. w. w. w. ne. ne. ne. ne. ne. ne. ne. ne. ne. ne

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Charleston / Maximum	62	64 47 65	50	50	69 6 54 4 76 6	4 61 9 42 2 62	45 67	47	48 78	48 8 82 8	14 4 72 7 50 5 80 8 38 8 79 8 87 4 79 8	5 5 5 8	52	61 82	80	62 79 64 80 58 82 58 82 56	65 80	74 766 680 880 885 85 85 85 85	4 74 5 65 0 78	62 79 8 50	59 50 48	83 43	56 60 45 72 48 57 45	50	52 6	0 75 5 53		73. 4 43.
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Florence 1   Maximum   Maximum   Minimum   Maximum   Maximum   Minimum	83 68	34 70	36 72 30	37 79	30 8 73 6 43 4 83 7 38 3 81 7	10 38 13 68 18 28 10 62 10 27 10 62 10 27 10 63 11 21 21 21 21 21 21 21 21 21 21 21 21 21 2	29 70	63 35 74 28 72 30 70 31 70 38	36 77	81 81	83 7	15 4 15 4 70 8	3 82 7 52 6 83 8 40	3 52 3 88 0 58	57 84 51			84 61 82	76 7 57 5	9 8	0 81 5 48	81 42	68	60.00		5	3	d76.
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Orangeburg   Maximum   Minimum   Maximum   Minimum   Minimum	63 39 65	67	70	80		70 6 40 3 61 6 40 3 64 6	39	34 71	74 37 79 32 75 33 76 32 77 36 73 34	77 89 82 83 81 85 80 82 80	41 79 38	44 4 86 8	12 4 15 7 17 5	4 51 3 82 2 49	54 88 48	61 83 55 81 54	58 83 60	59 84 54	5.9	54 5	6 76 66 53 11 79 53 55 80 85 57 75 54 57 78 86 53 49	80 48 58 45 2 60	50 88 45 68 58 72 49 75	58 48 50 46 68 58 55 46 56	48 5 51 6 44 6	72 758 558 558 558 560 7745 558 554 558 554 558 554 558 558 558 5	7 4  0 2	°47. 78. 48. 75.
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Wedgefield   Maximum   Minimum	66	31 65 37	68 35 68	70 38 75 84	78 52 80	68 6 42 9 66 6	0 65 3 36 3 67	65 34 71 84	36 73	42 79	46 80 40	81	88 8	84 85	8 55 2 84	62	64 84	60 82 60	57 76 60	56 80 60	53 4: 80 7: 57 5	9 48 9 78 3 47	48 66 54	47 59 58	47 70 53	70 8 52 8	54	46. 75. 46.
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Aiken Minimum	. 3	8 4 1 5	5 68 0 39 7 68 5 88	79 42 75 44 68 82 72 40 78 40 34	52 78 47	45 60	50 62 38 89 59 6- 35 35 46 5: 28 2' 69 6' 36 6 6 32 3	46	45 75	81 48 78 42	46 78 44 72 48 79 46	49 82 51 72 51 81	C+3 1	77 7	9 8	1 79 7 68 8 61 7 66 7 72 8 68 8 61 7 66 7 72 8 68 8 61	62 78 62	72 58 59	78 58 58 55 80 60 74 54	78 57	78 7 57 5 74 7 58 F	7 89 6 59 8 70 2 50 2 7	2 58 6 62 4 42 3 52 8 36 2 63 9 45	54 39	50 45 51	57 50	57 · · · · · · · · · · · · · · · · · · ·	49 69 47 60 48 72 45 71
Anderson Minimum Maximum Maximum Minimum Minimum	. 5	5 8 4 5 9 8	0 49	68	61	41 55 33	16 5: 28 2	2 66	68 42	71 47	72 48	72 51	64 52	52 4	1 6	7 60 0 55	59	59 54 81	58 55	53 80	51 4	17 4	8 86 8 86 9 63	39 58 85 55	36 57	50 52 48 62 40 63	49 · · · · · · · · · · · · · · · · · · ·	48 72
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Clemson College   Maximum   Minimum		16 2	27 2 36 6 29 2 54 6 37 3 58 6	8 34 6 76	37	81 61	64 6 29 2 59 6 38 8	8 3	0 77	35 79 46	80	83 52	82 52	78	81 52	79 65 58 6 80 7 89 6 78 7 86 6 60 6	9 69 1 64 9 78 4 68 1 76 8 65 5 7	80 60	74 61	75 60	76 5×	77 8 53 5	81 59 52 45 78 5	7 44 9 58 8 46 7 53 5 40 4 49 1 40	47	52 59	58	4' 6'
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Greenville Maximum.		58	56 6	2 7: 0 4:	72 4 50	40 60 43	56 6 38 8	34 7 36 4	2 74	1		44 80 52		- 1						72 57					1 i	- 1	61	6
Greenwood   Maximum		57 26 60 86	61 6 34 8 62 6	3 3	4 76 5 43	78 89	62 29 56 32 58 32 58 32 58	35 6 30 8 62 6	35 75 38 75 38 75 40 45 71 75 36 35 75 75	75 46 7 7 7 7 7 7 7 7 7 7 8 7 9 48 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	79 46 77 49 78 48 80 42	76 47 79 54	80 47 74 54	80 47 78 44 79 40 77 45	75 49 79 53 82 50	79 7 49 6 76 7 55 5	8 7 6 7 6 7 7 7 7 7 81 6 88 6 89 6	79 8 58 5 77 9 55 9 56 9 78 9 56 8 70 8 59	76 59 65 59 79 59 69	72 56 78 58	78 51 74 52 75 54 78 55	77 49 76 49 75 51 78 49	78 7 50 4 79 5 58 4 79 6	7 58 5 42 7 44 8 41 12 54 15 45 18 61 84 45	39	52 45 60 47 60	51 72 	6
Heath Springs   Maximum   Minimum   Maximum		60 86 58	25 9	6 7	4 76 5 43 6 70 5 40 8 78 0 46 9 67 1 45	58 39 60	32 58	65	40 45 71 75 36 35 75 7	49	49	54 84 58	54 80	44 79	89	801 7	55 5 77 7	9 55 9 58 0 59	79 59	56	75 54	75 51	79 6 49 4	2 54 5 45 8 6	51	60 49 62	72 55 74	4 6
Kershaw Maximum Minimum Maximum		58 35 56 36	60	16 4	0 46 9 67	62	32 58	81 65	36 39 75 7	9 49 8 77	48 80	53 83 48	80 53 79 42	77	78 47	75 6	58 6 59 6	8 70 3 59	69 61	72 68	78 55	73 49	49 4 72 5 50 8	8 6: 34 4:	2 44	48	63 ···	
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Laureus		35 63	32	31	8 75	62 35 64	80 68 80	28 68	78 7 82 8 72 7 86 2 78 7 83 8 72 8	9 80 5 78 9 78 9 46 9 85 9 85 9 87 9 85 9 87 9 81	79 37 8 80	45 89	52	78 41 79 53 80 44 81	90	60	76 7 61 6	9 78 8 57 5 80 60 66 2 80	78 58	77 54	79 51	76 56	48 4 81 6 51 4 81 6 45 4	58 5 14 8 19 5	9 44 8 55 8 40 5 52 0 44 0 55	68 45	75 48 75	
Little Mountain (Maximum Minimum Maximum Newberry (Minimum)	:::	64	63	68	10 38 79 77 37 45	64 86 62 86	63	68 27	73 7 33 2	9 85	8 49 7 89	51 82 49	84	80	83	81	78 7	2 80	78	56 56	79 52 78	76 47	45	44 4	0 44	49 67	57 · · · · · · · · · · · · · · · · · · ·	
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Winnsboro M Minimum Maximum Wintbrop College Minimum		84 64 88	35 60 35	75 40 64 20 67 39 67	84 85 46 56 77 77 95 35 79 76 41 45 78 7 89 4	6 42 5 68 5 38	65 80	64	73 36	78 8	80 8 12 4	0 84	81 51	78 47	80 59	78 52	74 60	55 5	6 5	50	52	52	51	40	37 4	2 40	55	
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	1	1	1	1		1								7			10 b	ronro	eonts	two	days	miss	ing, e	te.				

Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

M BO, Raleigh, 12-28-31-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

### CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

OL. XXXIV. COLUMBIA, S. C., DECEMBER, 1931.

### GENERAL SUMMARY.

The month was the warmest December since 1889, and naximum temperature records were equaled or broken on the Oth at many stations in the interior. Precipitation averaged in up-State, while in considerable areas of the coastal counes the amounts were greatly deficient.

The generally abundant rains in the central and northern day, ections were especially favorable for the germination and rowth of winter cereals, hardy truck, and pastures and for eplenishing much needed soil moisture. While the rainfall rowth of winter crops in that section was generally good, and, the close of the month, the general crop situation had imroved materially. Plowing was retarded to some extent up-tate by wet soil. Hog butchering was much delayed on acount of prevailing mild weather.

### PRESSURE.

The mean sea-level pressure, determined from reports of 9 gular Weather Bureau stations in and surrounding the Secharlotte, N. C., on the 8th and in the Section proper, 30.59 nches at Due West on the 2d; the lowest pressure was 29.66 flood at Mars Bluff from the 6th to the 11th, inclusive. iches at Augusta, Ga., on the 31st, and in the Section proper, 9.69 inches at Due West on the same date.

### TEMPERATURE.

The monthly mean for the Section, determined from reorts of 42 stations, was 53.5°, or 6.9° above normal. The aximum temperature records for December were equaled or roken at many stations in the western portion and at a conderable number of stations in the interior of the eastern por-on on the 20th. The highest temperature was 85° at Santuck n the 12th and at Kingstree and Summerville on the 20th. he warm period extended over practically the entire month, scept one cool period on the 8th and 9th, and on 28 days the nean temperatures ranged from near normal to 28° above. he lowest temperature was 20° at Santuck on the 27th.

### HUMIDITY.

The mean relative humidity, determined from reports of 9 gular Weather Bureau stations in and surrounding the Secon, was as follows: 8 a.m., 87%; noon, 69%; 8 p. m., 77%. he highest percentages occurred along the coast and over the orthwestern border counties, and the lowest, in the interior.

### PRECIPITATION.

The average for the Section, 54 stations reporting, was 14 inches, or 3.52 inches above normal and close to the ighest December average of record. Precipitation occurred seven irregularly defined periods and was very badly disibuted as to areas and amounts. Measurements of 4 inches

or more occurred in the central and western counties, and in the higher elevations, ranged from 10 to over 16 inches; on the coastal plain the amounts ranged downward from 4 to less than 2 inches (on the extreme northern coast). The greatest monthly amount was 16.41 inches at Caesar's Head; least local monthly amount, 1.65 inches at Myrtle Beach. The greatest amount during any 24 hours was 6.71 inches at Crescent (Van Patton Shoals) on the 3d. Snow flurries occurred in upper Spartanburg County and in Union County on the 8th. The average number of rainy days was 38% above normal

A general glaze storm occurred on the 8th and 9th in pracose to the greatest December average of record in 1905, but tically the entire western part of the Section, with some sleet ne general distribution was marked by a superabundance of and snow flurries on the 8th; in the higher elevations the ice on exposed objects accumulated to a thickness of one irch ly the morning of the 9th, but a general thaw set in later in the

The prevailing wind was from the northeast. The average n the coastal plain was much less than the amounts up-State, hourly velocity, determined from 9 anemoneter records, was 7.2 miles. The highest velocity for any 5-minute period was 33 miles per hour from the east at Asheville, N. C., on the 31st, and in the Section proper, 30 miles per hour from the northeast at Charleston on the 2d and at Greenville on the 3d.

### RIVER CONDITIONS.

Moderate freshet conditions prevailed in the Broad and Saluda Rivers during several short periods, and the Santee on, was 30.18 inches. The highest pressure was 30.63 inches at River was close to or above flood stages at Rimini and Fergusen after the 6th, with few exceptions. The Pee Dee River was in

### SUNSHINE AND CLOUDINESS

The average monthly sunshine, determined from 9 automatic records, was 147.5 hours, or 48% of the possible amount. The average number of clear days was 11; partly cloudy, 7, and cloudy, 13, as against normals of 14, 6, and 11 days, respectively.

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 6, 19, 23; Columbia, 18, 20, 22, 23; Due West, 18; Greenville, 18, 23; Little Mountain, 19; Spartanburg, 18, 24; Walhalla, 18, 20. Solar: Columbia, 7, 16, 23, 27; Due West, 7, 16: Greenville, 7, 23.

MISCE	LLAN	EOUS	DA	TA	FOR	DE	EMBI	ER,	83	1.		
	ses.		erati		Preci tio: incl	n,	Win 3-eup A	d. nem.	re	tean Intiv	e	age of pos-
Stations.	Barometer, s level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns
Asheville, N. C Augusta, Ga. Charleston, S. C. Charlotte, N. C. Columbia, S. C. Due West, S. C. Greenville, S. C. Savaunah, Ga Wilmington, N. C. Means and ex.	30, 20 30, 17 30, 16 30, 18 30, 18 30, 20 30, 17 30, 15 30, 18	47. 4 56. 0 61.3 50. 6 53. 6 51. 5 51. 2 62. 8 56. 4	73 80 81 79 81 79 78 82 80	28 31 40 28 32 30 28 40 31	6. 49 5. 35 2. 25 11.24 6. 46 11. 68 12. 56 1. 50 2. 64	2.01 0.88 1.15 4.49 1.42 4.25 4.44 0.49 0.64	7.8 4.3 9.7 4.5 5.6 7.6 9.8 7.6	nw. nw. re. sw. ne. ne. ne. sw.	86 92 86 89 86 88 88 88 85 81	64 66 72 73 64 71 77 71 62	77 71 82 78 70 80 79 76	48 58 48 53 44 36 47 45 56
tremes	30. 18	54.5	82	28	6.69	4.49	7. 2	ne	87	69	77	48

### Climatological Data for December, 1931.

					Ulima	tolog	ical I	Data	for .	Dece	mber,	1931.								
			record,	7	'emper	ature.	in deg	rees F	ahr.		Precip	itation.	in ine	hes.	Num	ber	of da	ays.	tion	
Stations.	Counties.	on, fee	of years.	-	Departure from the normal.	pet.	- 4	st.		range.	1.	Departure from the normal.	test in 24 hours.	snowfall.	With precipition (0.0) in or more)		y cloudy.	ıs.	Prevailing direction of wind.	Observers.
	100	Eleva	Length	Мевп	Depa	Higher	Date.	Lowest.	Date.	Grennest	Total.	Dera	Grentest	Total sno	With 1 (0.01)	Clear.	Partly	Clonds	Preva	0
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Beaufort (near)** Bluckville Charleston Cherau	Barnwell	21 296 48 144	50 47 60 49	60. 4 54. 8 61. 3 52. 8	+9.2 +6.8 +9.6 +8.1	*77 81 81	†15 †13 20 20	<sup>b</sup> 87 82 40 25	27 27 27 27 27	*35 21 44	2. 13 3. 38 2. 25 5. 41	-0.63 +0.07 -0.47 +2.13	1. 04 0. 60 1. 15 2. 12	0 0 0 0	6 11 8 10	9 8 7	14 13 11	8 10 13	9.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway Darlington Effinghan Ferguson‡‡	Darlington	25 175 106 63	41 36 40 45	57. 6 *52. 6 55. 6	+9.2 +6.9 +7.4	88 83 83	20 20 20	24 *22  24	27 27 27	46 *41 42	3.44 4.13 2.76 2.93	+0.10 +1.18 -0.49 -0.16	0.80 1.50 0.74 0.92	0 0 0 0	11 8 7 8	19 18	0 2	12 11 	ne.	Perry C. Quattlebann. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	lampton	136 136 82 54 68	49 16 13 49 6	55. 4 *57. 6 57. 9 55. 1	+9.6 +6.1 +9.6	82 *79 85 83	20 † 1 20 20	32 •27 21 30	27 27 27 †11	36 *42 42 51	3, 66 3, 96 2, 69 2, 30 3, 39	+0.66 +0.96 -0.94 -0.79	1.20 1.45 0.87 0.80 1.50	0 0 0 0	7 7 10 7 8	12 12 10 21 16	10 8 12 0 6	9 11 9 10 9	ne. n. sw.	11. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Mrs. Ellen Scott Dr. Charles B. Whilden.
Mars Bluff	Orangeborg Berkeley	92 30 264 54 97	15 84 17	57. 1 56. 8 54. 9	+8.0 +6.9	84 81 76	20 13 † 1	25 32 28	27 27 27 27	48 41	3.29 1.65 5.12 4.02 3.87	+2.01 +1.06 +0.78	1.42 0.74 1.42 1.50 1.13	0 0 0 0	10 10 11 8 9	18 !1 13	6 7 8	7 13 10	e. nw.	Rosa R. Pavis. Myrtle Beach Invest. Co. U.S. Fisheries Station: Miss E. P. Ravenel. Julian H. Aycock.
Society Hill	Sumter	192 75 169 249 24	40 33 7 41 42	°52, 4 58, 1 54, 6 55, 2 59, 4	+7.8 +8.5 +6.8 +7.4 +10.4	*88 85 84 83 88	21 20 20 20 20 † 4	425 24 25 27 27	†27 27 27 27 27 27	*45 46 44 42 41	4.18 2.16 4.54 5.48 1.67	+0.89 -1.27 +1.04 +2.21 -1.69	1.40 0.51 1.46 1.50 0.43	0 0 0 0	9 8	12 10 12 18 8	7 5 4 4 9	12 16 15 9 14	e. sw. w.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Pept. W. Hampton Ramsey W. C. Hutson.
Division memps and	extremes			56.4	+8.1	85	20	21	27	51	3.38	+0.18	2. 12	0	.9.	13	7	11,	•е.	(= )
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Cutawhn Chappells. Cherokee (near) Clemson College Columbia	York	562 402 758 850 351	25 26 3 39 45	49, 2 *52.4 53.6	+8.8 +6.4	80 81 81	20 20 20 20	21 a24 32	27 27 27 8	42 *43 *85	7. 10 7. 42 12. 98 12. 40 6. 46	+3.15 +3.08 +7.14 +3.43	1.85 2.98 2.11	T. 0	12	14 3 6	8 3 13	9 25 12	nw. ne. ne.	James C. Faris. William Spearman. Spartanburg Water Works. Prof. P. H. H. Calborn. U. S. Wenther Burean.
Crescent.  Due West Edge-fleid †† Ellenton Guston Shoals †† Greenville.	. Abheville	76 680	5 17 18 28 47	51.5	+6.5	79	20	30	8	27	15. 86 11. 68 4. 81 4. 74 11. 48 12, 56	+7.14 +1.54 +7.15 +7.72	1.08 1.30 3.90	0 0 0 0	9 10 14	4	9		ne.	Duke Power Co. U. S. W. B. Aerological Sta. Agent C. and W. C. Ry. A. A. Foreman. Southern Public Utilities, U. S. Weather Burenn.
Greenwood Heath Springs Kershaw Landrum Laurens	Greenwood Lancaster Kershaw	671 568 500	47 29 15 16 13	50, 7 50, 0 53, 4 50, 8 52, 0	+7, 1 +6, 5 +6, 9 +7, 4 +7, 1	75 80 981 80 883	14 20 20 †19 20	28 28 30 28 *25	27	.89 40 *48 45 *88	7. 88 8. 41 7. 76 12.89 11.28	+2.96 +4.77 +4.71 +7.58 +6.96	2.21 2.80 2.69	T. 0	19	16 14 10 9 11	0 2 3 9 14	13	w. w. e. nw. sw.	M. M. Calhoun, J. Marvin Bowers, John W. Harret, R. Hartwell Wilds, D.D.S, L. G. Roff.
Little Mountain Newberry Pelzer Sainda Santuck	Anderson	502 850 536	27	51. 2 52. 0 51. 8 *50. 5	+5.4 +6.7 +6.3 +7.0	81 83 81 85	20 20 20 20 12	27 25 24 620	126	49	8.52 9.03 11.38 8.32 8.85	+5.05 +4.71 +6.33 +4.28 +4.71	1.72 4.74 1.80	T.	14 15 14 16	16 12  9	2	17 	e. ne.	Miss Alberta Scase. John H. Baxter. Joshny Y. Jones. B. B. Blease. E. W. Jeter.
Spartanburg Trenton Walhalla Winnsboro Winthrop College !!	Oconee Fairfield York	. 620 . 1061 . 545	31 87	50. 0 53. 6 50. 1 51. 0 52. 0	+7.8 +6.2 +6.5 +6.1 +8.2	83 78 80 81 81	20 13 20 20 20	29 29 28 30 27	27	86 48 35	10, 00 6, 56 15, 91 6, 57 11, 09		1.30 3.10 1.53 4.55	. 0	11 15 13 11	12 4 7 7	15	12 11 10 9	e. ne. ne. n.	U. S. Weather Bureau. 3 Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division means and Section means and		100		51.4	+6.5 +6.9	85 85	12 †12	20		1	9.72 7.14	+5.58			13	10	7	1		

The departures from the normal temperature and precipitation are computed only for such stations as have ton or more years of record, but all complete reports are used in determining section or division means. Reference letters (4, 5, 0), appearing in the table indicate number of days missing; for example, by represents two days missing, etc. All the properties of the relationship of

### RRATA.

January, 1931.—Precipitation, text, second line, page 1, average precipitation should be 2.58. Columbia, date of minimum temperature, page 2, should be 2d.

Daily Precipitation for December, 1931.

Stations.	Drainage.	_														Duy	of n	ont	h.											-			-
	basins.	1	2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	21 :	25	26	27	28	29	30	31	otai.
dern Portion. rt(nour). file       iton ***.	Coast		Ť.	T.	. 55				T.	. 10	. 83				.00	T		. 85	. 67				T	06		22			T . 60 . T 84			1.01	2.25 5.11
ton      nm   - m   - e 1   - e 2   -	Pee Dee Lynches Santee Pee Dee do Savannah				1. 20 1. 45	. 48			  	.65 .87 .18	. 70				.06	. 05 T.		i. 19	. 55 . 21 . 09 . 31				т.	04 .		25			- 1			T. T21	3.14 4.13 2.76 2.93 3.66 8.96 2.69
eo       uff 	Black			.04	. 03	. 19				.28 .50 .25 .42 .39 .15	. 12 . 25 T.		.05		.07	. 12		T. . 21 . 10 . 03	T. .02 .16			.01	T	09	12	23 .			. 80 . 67 . 81 . 74 . 55		[	T61	2. 69 3. 39 3. 29 1. 65 5. 12 4. 62
titi (f) ville (f) ella elli va Portion.	Pee Dee. Ashley. Watereedo Ashepoo		• • • •		. 10 1. 46 1. 50 . 21	.40			.05	.54 .34 .61.	. 80				. 19	.04		. 43 .20 .30 .43	. 03			· · · · ·	ns	5	23	05 /			51			. 45	3.87 4.18 2.16 4.54 5.48 1.67
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t as otherwise indicated, observations are generally made late in the afternoon, near smost, and precipitation recorded is for the 24 hours ending at the time of tion. If Precipitation measured in the morning, amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the period, midnight to midnight. \* Precipitation included in the next following measurement. ISeparate dates of falls not recorded. T. Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR DECEMBER.

									TOR DECI	am DE	u.							
Te	mperati	ıre.	Precip	itation.	Avera	days.	ber of	iling direc- m.		Te	mperatn	ire.	Precip	itation.	Averag	e num	ber of	B 23
Mean.	Highest	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di	Year.	Mean.	ighest.	owest.	Average.	Average days with 0.01 inch or more.	Clear.	artly ioudy.	Cloudy.	revalling wind direc-
				0		1 110	1 0	-	<del></del>	~	H	7,	4.	Ar day 0.0	0	Pa	Clo	O.
44. 9 42. 7 55. 4 45. 9 47. 1 47. 2 48. 1 44. 0 47. 6 45. 5 44. 6 45. 5 46. 8 41. 0 46. 8 41. 0 46. 2 50. 6	76 779 76 79 85 80 82 77 79 89 85 72 78 78 87 88 88 88 88 88 88 88 88 88 88	18 13 17	4. 65 3. 56 0. 53 2. 25 1. 24 3. 05 3. 04 3. 04 3. 04 3. 56 3. 04 5. 64 5. 64 5. 64 5. 61 5. 64	10 71 6 6 77 66 77 88 87 77 66 99 10 77 10 10	17 15 16 17 11 12 15 14 13 14 20 14 14 12 14 14 17	7 8 7 6 8 7 5 6 5 5 5 4 8 7 9 7	7 8 8 8 12 12 2 8 10 13 11 6 12 15 9 10 9	Ne. e.  SW. NW. NW. NW. NW. NW. NW. NW. NW. NW. N	1910 1911 1912 1913 1913 1914 1915 1916 1916 1917 1918 1921 1921 1921 1922 1923 1924 1925 1926 1927 1927 1928 1928 1929 1929 1921 1928 1928 1928	42. 0 49. 8 48. 8 47. 8 43. 9 46. 7 37. 7 50. 8 46. 5 46. 5 47. 6 48. 7 48. 7 46. 2 46. 0 41. 5 33. 5 46. 6	76 85 79 77 80 79 82 87 75 80 86 77 82 83 84 78 84 85 89	12 18 18 16 11 17 16 17 15 18 20 22 23 12 13 12 15 5 10 10 10 10 10 10 10 10 10 10	2. 36 4. 94 2. 88 4. 25 5 4. 80 3. 27 2. 43 1. 47 5. 35 5 3. 45 4. 91 4. 12 5. 54 4. 90 6. 93 1. 87 4. 14 3. 84 7. 14 7. 14 7. 14 7. 16 2	5 9 8 9 8 9 13 7 9 6 8 8 8 9 6 6 7 7 11 8	18 11 12 10 6 18 16 15 12 16 15 16 16 11 18 15 14 15 14 15 14 15 14 14 11 14	775765666665758545465676	8	W. ne. SW. W. ne. W. ne. W. ne. SW. w. ne. W. w. ne. SW. ne. SW. ne. SW. ne. ne. w. w. ne. ne. ne. w. w. w. me. ne. w. w. w. w. me. ne. w. w. w. w. w. me. ne. w. w. w. w. me. ne. w. w. w. w. w. me. ne. w. w. w. w. me. ne. w. w. w. w. me. ne. w. w. w. w. w. me. ne. w. w. w. w. w. w. w. w. w. w. w. w. w.

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Eastern Portion.  Beaufort (near)   Maximum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Minimum	70 58 81 62 62 62 65 65 65 65 65 65 65 66 65 66 67 67 67 67 67 67 67 67 67 67 67 67	43 76 70 38 71 50 60 60 60 60 60 60 60 60 60 6	422 655 522 38 6 44 55 6 6 54 55 6 6 54 55 6 6 6 6 6 6	65577 60 60 60 60 60 60 60 60 60 60 60 60 60	46 55 55 41 60 60 42 61 61 61 61 61 61 61 61 61 61 61 61 61	70 555 60 444 66 53 38 644 647 66 63 41 45 66 45 45 46 47 64 47 64 47 64 47 64 47 64 47 64 47 64 46 47 64 47 64 64 64 64 64 64 64 64 64 64 64 64 64	69 50 60 46 60 52 53 63 63 61 43 67 45 40 61 48 64 44 58 48 48 48 48 48 48 48 48 48 4	65 53 43 43 55 55 47 39 66 58 48 48 48 48 48 48 48 48 48 48 48 48 48	45 46 34 71 53 45 32 71 37 48 32	57 45 74 53 58 38 65 51 55 39	68	43 58 75 63 80 50 81 54 80 39 80 80 81	777 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	122 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	65 4 5 6 6 6 7 9 6 7 9 7 4 4 8 9 9 6 6 7 9 7 4 4 8 9 9 6 7 9 8 6 7 9 8 6 7 9 8 6 7 9 8 6 7 9 8 6 7 9 8 6 7 9 8 6 7 9 8 6 7 9 9 7 8 6 7 9 9 7 9 8 6 7 9 9 7 9 8 6 7 9 9 7 9 8 6 7 9 9 7 9 8 6 7 9 9 7 9 8 6 7 9 9 7 9 8 6 7 9 9 7 9 8 6 7 9 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	77 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	00 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	61 66 65 66 66 66 66 66 66 66 66 66 66 66	79 8 44 8 75 8 54 8 554 8 76 8 77 8 77 8 77 8 77 8 77 8 77 8 77	79 54 85 8 59 8 88 6 54 8 58 8	9 6 6 6 5 7 7 6 7 5 7 6 7 6 7 6 7 6 7 6 7	27 5 6 48 47 7 6 6 6 8 8 7 7 6 6 7 7 6 7 7 7 7 7 7	68 65 55 5 48 80 6 50 55 55 49 49 49 49 49 49 49 49 49 49 49 49 49	53 67 51 69 41 63 48 69 49 68 53 65 57	60 35 53 40 59 60 35 57 37 34 59 51 55 51 55 58 58 58 58 58 58 58 58 58 58 58 58		70 45 57 477 467 42 60 41 60 82 8 64 66 62 577 41 62 57 70 88 60 43 60 43 60 43 60 43 60 44 60 44 60 44 60 60 60 60 60 60 60 60 60 60 60 60 60	68 40 8 39 67 4 65 8 6 8 4 6 6 6 7 8 6 8 4 6 6 6 7 8 6 8 4 6 6 6 7 8 6 8 4 6 6 6 7 8 6 8 4 6 6 6 8 6 8 6 8 6 8 6 8 6 8 6 8	78 40 61 88 66 67 87 97 97 97 97 97 97 97 97 97 97 97 97 97	68 55 61 56 65 649 66 65 67 58 66 67 57 68 68 68 68 68 68 68 68 68 68 68 68 68	- b70 b50 b68 b68 b68 b68 b68 b68 b68 b68 b68 b68
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Reference letters (A, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

| M Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 1-26 32-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL

No. 13

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

VOL. XXXIV. COLUMBIA, S. C., YEAR, 1931.

# GENERAL SUMMARY.

One previous year (1925) had a lower annual rainfall than 1931. Thermal conditions showed wide range. The spring months had an average of 3.6° below normal, July was anusually warm, and during the period, September to Desember, the average temperature was 4.3° above normal, with nany maximum temperature records for December equaled or proken. The real drought of the year embraced the autumn nouths, with a total of 7.06 inches of rainfall below normal, nd greatly diminished soil moisture generally. However, his condition was followed by a remarkably high average rainill in December. Eight persons were killed by lightning, and mulated ice on exposed objects being one inch thick by the 9 were injured. One small tornado occurred in October. here was but one flood of consequence. Damage from storm ress, which occurred during the period. April to October, pproximated \$125,325

Incident to persistent low temperatures during the spring, ne general growing season opened about April 1 with all vegetion backward. Cotton planting was finished toward May, id chopping began early in that month; the first bloom was icked near Allendale on June 16, or 5 days later than normal; e first open boll was picked near Furman on July 23, or 6 nys earlier than normal, and the first bale was ginned at Alndale on August 4, or 7 days earlier than normal. Tree uits began the season with no material frost damage. Corn, bacco, sweet potatoes, truck, and lesser crops showed pracnall grain harvests began during the last week of May and ere finished about June 23, when threshing was active. On e whole, while the reserve of soil moisture was less than durg several years, the rains were comparatively timely up to close of August, and most staple crops had matured before

Spring freezing temperatures were general as late as March and at a considerable number of stations on the 30th, lie a few stations in the higher elevations reported later annual wind velocity was 6.5 miles per hour. The highest es. Autumnal freezes began at a few up-State stations on ober 18, 19, and 31, advancing over the central sections by vember 7, and a few stations had not reported killing frosts the close of the year. The average latest spring killing frost e for 1931 was March 23, or 1 day later than normal, and or 9 days later than normal. The growing season was 241 s in length, or 8 days longer than normal.

The mean annual temperature was 63.6°, or 0.7° above mal. The warmest month was July, with a mean of 82.2° coolest month was January, with a mean of 44.5°. nest annual mean at any station was 67.3° at Beaufort than for several seasons. The average temperature was close ar); lowest annual mean, 53.7° at Caesar's Head. The to normal. Average snowfall, Trace. est annual temperature was 107° at Garnett on July 7 at Garnett and Blackville on September 18; the lowest tion averaged much below normal. Spring freezes were gen-

Seasonable temperatures, with departures from the 45-year normals: Winter, 48.6°, +2.1°; spring, 59.0°, -3.6°; summer, 79.4°, +0.7°; autumn, 67.4, +3.4.

The average annual precipitation was 37.17 inches, or 10.69 inches below normal. The greatest annual amount at any station was 67.71 inches at Caesar's Head; least annual amount, 22.38 inches at Aiken. The greatest monthly amount at any station was 16.41 inches at Caesar's Head in December; least monthly amount, 0.00 inch at Aiken in November. average number of rainy days was 86; greatest number at any station, 116 at Greenville; least number, 65 at Aiken and Florence No. 2. Average annual snowfall, 0.9 inch. Measurable snowfall occurred in the higher elevations on January 8 and 14, February 25, March 4, 21, and 22, and April 1 and 6, and snow flurries occurred up-State on March 8 and in scatulminating in the least precipitation for November of record tered sections of Spartanburg and Union Counties on December A general glaze storm, with some sleet and snow flurries, occurred in the western portion on December 8-9, the accumorning of the 9th.

During the growing season, March to September, inclusive, the total precipitation was 24.34 inches, or 6.82 inches below normal, as compared with -7.10 inches in 1980 and -15.54 inches in 1925, the driest year of record.

Seasonable precipitation, with departures from the 45-year normals: Winter, 11.49 inches, +0.69 inch: spring, 10.96 inches, +0.29 inch; summer, 12.40 inches, 3.97 - inches; autumn, 2.32 inches, -7.06 inches.

The only notable freshet occurred in the Pee Dee River System during August, when the losses approxin ated \$3,000, and the value of movable property saved by warnings was estimated at \$25,000.

The average annual atmospheric pressure was 30.07 ally seasonable development, but lack of copious rains in inches. The highest pressure was \$0.65 inches at Due West ost sections during June was generally detrimental. The on January 15; the lowest pressure was 29.27 inches at Greenville on January 5.

The average annual sunshine was 67% of the possible amount. The average annual number of clear days was 197; partly cloudy, 84, and cloudy, 84, as against normals of 174, 96, and 95 days, respectively

velocity for any 5-minute period was 46 miles per lour from the northeast at Columbia on July 2.

# WEATHER BY MONTHS.

January.—The month was colder than usual, due to rather average earliest autumnal killing frost date was November persistent low temperatures during the first three weeks. Precipitation was considerably below the average. Sleet occurred on the 11th, 14th, and 20th. Average snowfall, 0.6 inch. Moderate freshets occurred in the Santee River.

February. - Precipitation averaged less than half the nor-The mal, and the winter closed with considerably less soil moisture

March. - The month was remarkably cold, and precipitaas temperature, 10° above zero at Clemson College on eral as late as the 18th and at a considerable number of up-(CONTINUED ON PAGE 52.)

YEAR, 193

# Climatological Data for the Year 1931.

				C	limat	tological	Data	a for the	Year	1931.										
			Te	mpera	ture (	degrees F	ahren	heit).		Pre	ecipitat	ion (ln	ches).					Sky.		Jo u
Stations.	Countles.	Elevation, feet.	Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.	Total snowfall.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction wind.
EASTERN PORTION,										1										н
Beaufort (near) Blackville Charleston Cheraw	Beaufort	21 296 48 144	23 48 59 50	67. 8 66. 0 67. 0 63. 8	103 107 101 105	July 7 Sept. 18 July 2 Aug. 2	25 22 30 18	Jan. 16 Jan. 15 Jan. 15 Jan. 2†	51 48 61 50	29. 11 28. 05 28. 80 41. 40	6. 09 4. 22 6. 88 10. 16	June July July Aug.	0.20 0.05 0.53 0.21	Nov. Nov. Nov.	0 T. 0 T.	66 83 92 77	190 170 148	125 151 111	50 44 106	e. sw
Conway	Horry Darlington Fiorence Orangeburg	25 175 106 63	35 32 43	64.8 63.7 64.6	102 102 	July 2 Sept. 18 June 28	21 18 19	Jan. 2† Jan. 2 Jan. 2	43 37 41 46	37, 46 27, 54 28, 85 36, 13	8.93 5.20 5.84 8.73	July Aug. May July	T. 0.38 T. 0.02	Oct. Feb. Oct. Nov.	0 T. 0 0	84 73 82 68	266 218	3 59	96 88	sw
Florence 1	Florence Fiorence Hampton Williamsburg	136 136 82 54	50 14 50	64.8	102 107 108	July 2 July 7† Sept. 18	20 20 20	Jan. 2 Jan. 2 Jan. 2	50 15 14 50	35. 06 34. 67 26. 75 52. 43	6.76 6.38 4.97 6.80	July Aug. Aug. July	0.04 0.57 0.02 0.17	Sept. Sept. Nov Oct.	T. 0 0 0	77 65 84 76	229 229 261	83 85 24	53 51 80	e. s.
Marion	Marion	68 92 264 54 97	4 16 47	65.8	101 94	Sept. 18 Sept. 17	18 23 21	Jan. 2 Jan. 2 Jan. 16	4 8 16 85 21	87.68 81.13 83.57 83.35	7. 53 5. 12 8. 47 6. 31	Aug. Dec. May May	0. 22 0. 54 0. 09 0. 20	Sept. Nov. Nov. Oct.	T. 0 0 0	82 85 73 68	185	89	91	SW
Rimini	Darlington Dorchester Sumter	192 75 169 249	41 34 3 10	65. 4 64. 5	104 102 102	July 2 July 2 July 28	16 20 19	Jan. 2† Jan. 2 Jan. 2†	41 34 3 10	38.55 35.11 31.58	7, 09 7, 99 7, 21	July Aug. July	0.58 0.12 0.12	Feb. Oct. Nov.	T. 0 0	75 79 82	191 209	65 89	109 67	w s. se. w.
Wedgefield Yemassee Division means and	Hampton	24	43	66. 2 65. 0	105	July 2t July 7t	20 16	Jan. 2† Jan. 2†	43	25.72 32.75	3.89 10.16	Aug.	0. 23 T.	Nov. Oct.	0 T.	88 77	227 215	47 77	91 78	sw sw
WESTERN PORTION.																				ı
Aiken	Aiken	527 764 298	68 35	65.8 63.0	104 101	June 28 June 28†	20 19	Jan. 15 Jan. 15	70 39 27	22.38 36.90 35.66	5.44 12.35 9.08	Dec, Dec. Dec.	0,00 0.70 0.22	Nov. Nov. Nov.	0 2.5 0.5	65 92 81	255 282	18 28	92 105	0. W.
Cæsar's Head Calhouu Falis Camden Catawba	Greenville	8118 508 222 562	8 15 53	53. 7 63. 6	90 105 102	June 28† June 28 Sept. 18	13 19 17	Jan. 15 Jan. 25 Jan. 25	8 33 83 26	67.71 42.07 34.21 40.98	16.41 12.10 5.40 9.58	Dec. Dec. Aug. Aug.	2.25 0.08 0.82 0.24	Sept. Nov. Sept. Sept.	10.0 T. 0 2 0.5	96 78 94 92	135 184	68 84	162 97	w.
Chappells	Newberry Spartanburg Oconee Richland	402 758 850 351	4 37 45	62.6 64.7	102 101 101	June 29 June 28 June 28	10 24	Jan. 16 Jan. 2	27 4 40 45	36, 58 43, 87 47, 61 30, 86	9.20 12.98 12.40 6.46	July Dec. Dec. Dec.	0.24 0.16 0.37 0.52	Oct. Nov. June Nov.	0.7 2.0 1.0 0.3	106 76 95 91	265 97 160	95	51 173 78	sw w. ne,
Crescent		630 711 550 680	18	62.6	103	June 29	19	Jan. 15	18 19 29	55. 48 36. 64 38. 87 38. 39	15, 86 11, 68 5, 62 11, 43	Dec. Dec. July Dec.	0.32 0.54 0.08 0.45	June Nov. Nov. Nov.	0.5 1.9 0 1.0	99 114 66 99	182	116	117	SW
Greenville Greenwood Heath Springs Kershaw	Greenville	989 671 568 500	48 48 30 16	62.8 62.8 61.8 63.7	101 104 100 101	June 29 June 29 Sept. 18 Sept. 18	24 20 20 19	Jan. 15 Jan. 15 Jan. 15 Jan. 2	48 48 30 16	47. 22 37.65 34. 91 35. 38	12.56 7.33 8.41 7.76	Dec. Dec. Dec. Dec.	0.78 0.50 0.20 0.27	June Sept. Nov. Nov.	3.5 1.0 T. 1.5	116 100 83 86	143 178 161	136 54 48	96 133 161	w. w. w.
Landrum Laurens Little Mountain Newberry	Spartanburg	1068 589 711 502	17 14 39 28	62.2 63.4 63.4 63.6	103 106 104 105	July 2 June 29 June 28 June 29	16 17 22 19	Jan. 2 Jan. 2 Jan. 15 Jan. 16		52.08 87.57 34.86 36.34	12.39 11.28 8.52 9.03	Dec. Dec. Dec.	1. 14 0. 28 0. 14 T.	Sept. Oct. Sept. Sept.	T. 2.0 2.5 3.2	99 89 81 89	185 236 222 215		63 41 69 81	nv sw s. w.
Pelzer Saluda Santuck Spartanburg	Anderson Saluda Unio n	850 536 512 875	30 39 55	61. 4 62. 0	104 102 103	July 29 June 29 July 2	13 21	Jan. 2 Jan 15	28 30 39 53	45. 42 32. 68 42. 19 39. 62	11.38 8.32 9.74 10.00	Dec. Dec. Aug. Dec.	1,06 0.21 0.11 0.52	Nov. Nov. Sept. Oct.	1.4 0.5 1.5 1.5	102 81 96 105	202 136		51 110	sw w.
Trenton	. Oconee	620 1061 545 690	37 30 38 32	64.8 60.6 63.5 62.7	104 102 105 103	June 29 June 29 July 2 July 2	19 14 20 19	Jan. 15 Jan. 2 Jan. 2 Jan. 2 Jan. 2	38	36, 87 50, 87 43, 16 49, 97	6, 56 15, 91 8, 59 11,09	Dec. July Dec.	0.25 1.05 0.21 0.44		T. 1.5 0.5 4.0	72 111 98 79	162 195 177	98	72 47	se se sw s.
Division means and ex	1			62.5 68.6	106 107	June 29	10	Jan. 16 Jan. 16		40. 24 37. 17	16.41 16.41	Dec.	0.00	1	0.9	92 86	184 197	11		W.
moning wild 62					1							1					1	1	1	

<sup>†</sup>On other dates also.

\*\* Temperature data are from observed readings of the dry bulb; means are computed from observed readings.

†! Postoffice addresses of these stations are as follows: Of Gaston Shoals, Blacksburg; of Winthrop College, Rock Hill.

Monthly and Annua	i Precipitation	for the	Year	1931,	with	Departures from the Normal.	
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			MOL	citiy	MILL	Ann	umi 1	1001)	DITAT	on 10	r the	Year	1931	l, wit	h De	parti	ares !	from 1	the l	Norm	al.					
	Ja	nuary	Feb	ruary		darch.		April.		May.		June.	J	uly.		gust.		ember.	_	-	1	ember	Dece	mber.	Anr	nual.
Stations.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Denarture	Descriptions	Denarture	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
EASTERN PORTION, eaufort (near)	2. 47 2. 58 2. 37 2. 60	-0. 37 -0. 79 -0. 65 -0. 56	1.54 1.35 1.67 1.04	-2.87 -2.80 -1.81 -3.05	2, 72 1, 98 2, 88 2, 71	-0.7 -1.6 -0.1 -0.8	0 1.8 2 2.8 4 0.9 7 3.6	7 -1.6 0 -0.8 2 -1.6 -0.8	06 2.4 51 3.0 61 1.1 51 5.8	5 -0.6 2 -0.8 2 -1.8 6 +2.2	57 6. 09 52 3. 35 58 2. 46 27 2.22	9 +0.68 5 -2.12 6 -2.13 -2.96	3,85 4,22 6,88 6,13	-2.86 -1.88 -0.01 +0.11	2 · 52 3 · 23 4 · 93 10 · 16	-8.74 -2.11 -1.60 +8.96	3.27 1.74 2.68 0.56	-1.91 -2.55 -2.45 -3.19	0.50 0.85 0.71 0.89	1	8 0.20 5 0.05 5 0.58	-1.9 -1.98 -1.6	2. 13 3. 28 1 2. 25	-c.cs +c.c7 -0.47	29. 11 28. 05 28. 60	-17. £1 -18. 57 -16. 42 - 5.61
onway. arlington flingham erguson	2, 39 1, 42 2, 48 3, 35	-1.39 -1.54 -1.05 -0.39	1. 68 0. 38 1. 07 1. 12	-8.02 -3.89 -3.57 -1.48	8.58 1.39 2.37 3.42	+0.0 -1.7 -1.4 +0.0	4 2.69 0 2.29 4 3.00 9 2.59	-0.8 -1.0 -0.5 -0.5	38 4.9 08 4.4 25 5.8 52 5.7	6 + 1.2 $1 + 0.5$ $4 + 2.1$ $2 + 2.1$	29 2.20 6 1.96 5 1.15 0 2.54	-3.07 -3.56 -4.64 -3.01	8.93 5.32 4.31 8.73	+2.32 -2.19 -1.80 +1.85	7.85 5.20 5.11 4.24	+0.74 +0.22 -0.60 -2.59	0. 20 0. 45 0. 18 1. 47	-4.87 -8.98 -4.40	T 1. 09 T.	-3.17 -1.90 -3.08	0.05 1.55 0.51	-2.21 -0.56 -1.59	3.44 4.18 2.76	+0.10 +1.18 -0.49	37.46 27.54 28.85	-12,86 -17,(8 -20,71
lorence 1lorence 2rnett ingstree arion	2. 06 1.88 2.77 2.67 2.50	-0.91 -1.09 -0.31 -0.52	1.08 1.02 1.01 1.51 1.76	-3.09 -3.10 -2.94 -2.25	2.00 2.08 1.87 2.19 2.42	-1.8 -1.8 -1.9 -1.30	3. 00 1 2. 51 2. 62 2. 04 3. 32	+0.0 -0.4 -0.9 -0.8	06 5. 5 19 6. 2 07 1. 9 81 6. 1 6. 2	9 +1.6 4 +2.2 7 -2.3 9 +2.8	2 1.51 7 2.87 1 2.41 4 3.52	-3.95 -3.09 -4.11 -1.77	6. 76 5. 83 4. 43 6. 80	+0.92 -0.01 -2.81 +0.28	6.38 4.97 8.42	+1,18 +1,19 -0,27 -2,70	0.44 0.57 1.71	-3.87 -3.74 -4.58	1.88 1.18 0.28	-1.16 -1.86 -2.06	0.70 0.70 0.02 0.18	-1.51 -1.51 -2.47 -1.91	8, 66 3, 96 2, 69 2, 80	+0.66 +0.96 -0.94 -0.79	35, 66 34, 67 26, 75 82, 43	-10,40 -10,79 -25,94 -14,89
ars Bluff yrtle Beach rangeburg nopolis mini	2, 36 2, 59 3, 55 3, 18	-0.88 +0.64 -0.44	0.94 1.56 0.80 1.52	-2. 18 -2. 74 -2. 37	2. 76 2. 14 3. 82 1. 47	-1.52 +0.19 -1.92	2.82 3.81 2.25 4.40	+0.4 -0.7 +1.2	7.1 4 4.0 8 8.4 8 6.3	0 +0.5 7 +4.6 1 +2.0	3. 14 2 3. 45 9 4. 18 2 4. 41	-1. 43 -1. 59 -0. 35	5. 14 3. 72 3. 97 3. 88	-2. 92 -2. 87 -3. 22	7. 53 4. 88 1. 86 1. 97	-2.71 -4.82 -1.53	0. 22 1. 00 2. 12 0. 25	-2.40 -4.44 -5.04	1. 60 6. 27 0. 72 0. 20	-1.39 -2.71	0.71 0.04 0.54 0.09	-0.99 -2.34	3. 29 1. 65 5. 12 4. 02	+2.01 +1.06	37. 68 31. 13 38. 57	- 18.59 - 15.71
elety Hill minerville mter edgefield massee	2.76 3.22 2.86 2.93	-0.43 +0.08 -0.73 +0.06	0. 58 - 1. 30 - 1. 39 - 1. 50 - 1. 47 -	-3.88 -2.57 -2.61 -2.50 -1.23	3. 64 3. 29 1. 49 2.05 2. 64	+0.20 -0.07 -1.96 -1.42 -0.88	2.77 2.97 3.19 3.69 2.33	0.7 0.5 +-0.0 +-0.5 0.5	0 6.3 1 2.7 7 4.0 6 3.8 9 3.5	+2.8 5 -0.6 3 +0.8 +0.4 5 -0.0	7 1.90 9 3.00 0 1.74 9 1.19 8 2.47	-3.44 -2.68 -2.83 -3.53 -3.70	7. 09 7. 94 7. 21 5. 46 3. 77	+0.70 +0.92 +2.12 +0.38 -3.48	7.08 - 7.99 - 3.78 - 3.82 - 3.89 -	+1.45 +1.40 -1.59 -1.90 -2.24	0.80 0.24 0.20 1.45 0.29	-3.56 -4.96 -4.03 -2.73 -4.27	0.59 0.12 0.98 0.11 0.45	-2.43 -2.95 -1.78 -2.63 -2.81	0.90 0.13 0.12 0.15	-1.35 -2.18 -1.94 -1.93	4. 18 - 2. 16 - 4. 54 - 5. 48 -	+0.898 -1.278 +1.048 +2.21	88. 55 - 35. 11 - 31. 53 -	- 9.68 -15.48 -13.41
Division means and departures.	2.62	-0.63	1.28 -	-2.78	2. 49	-1.00	2.75	0. 3	4 4.89	+1.2	2 2,64	-2.74	5. 63	-0.70	5.24	-0.63	0.95	-3.69	0. 56	-2.28	0.39	-1.82	3.38	+0.18	2.75	-15.24
ken	2. 17 · 2. 16 · 2. 44 · 3. 42 ·	-1.53 -1.98 -1.23	1. 70 - 3. 35 - 1. 28 - 3. 30	-2. 40 -1. 69 -2. 92	1.92 2.91 2.98 5.10	-2.08 -1.77 -1.00	2.35 2.38 3.73 6.93	-0.78 -1.08 +0.82	3 1.84 3.54 2.54 6.99	-1.71 -0.09 -0.72	0.11 1.37 3.10	-4.56 -2.96 -0.91	2.30 - 3.39 - 5.01 -	-2.77 -1.80 -0.22	4. 08 ~ 1. 84 ~ 4. 39 ~	-1.03 -3.28 -0.76	0. 19 - 1. 89 - 0. 37 -	-3.41 -1.49 -2.82	0.28 - 1.02 - 0.57 -	-2.41 -1.80 -2.05	0.00 - 0.70 - 0.22 -	-2.54 -1.99 -2.03	5. 44 = 12. 35 = 9.08 =	+1.802 +7.603 +5.078	2.38 - 6.50 - 5.66 -	-28.37 -12.13 - 8.77
llioun Falls 2 mden 3 awba 2 appells 2	2. 18 - 3. 21 - 2. 63 - 2. 66 -	-1. 80 -0. 29 -1. 02 -1. 98	2.53 - 0.97 - 1.14 - 1.46 -	2.53 2.95 3.38 2.72	2.62 2.47 2.13 3.07	-2.24 -1.29 -2.15 -1.03	2.95 4.33 3.81 2.72	-0.51 -1.15 +0.74 -0.38	3.81 3.55 5.33 3.31	-0.11 +0.26 +1.72 -0.24	2.39 2.78 2.60 1.78	-1.47 -1.92 -1.64 -1.99	6.78 ± 2.32 ± 5.34 ± 9.20 ±	-1.54 -3.05 -0,47 -3.98	1. 34 - 5. 40 + 9. 58 +	-0.08 -0.11 -4.77	2. 25 . 1. 28 - 0. 82 - 0. 24 - 0. 55 -	-2.58 -3.14 -3.52 -3.13	1. 01 - 2. 25 - 0. 63 - 0. 24 -	-2.00 -0.50 -2.64 -2.43	3.34 . 0.08 - 0.83 - 0.40 - 0.75 -	-2.87 -1.51 -2.05 -1.50	16.41 • 12.10 + 5.28 + 7.10 + 7.42 +		7. 71 2. 07 - 4. 21 - 0. 98 - 6. £3 -	- 6.55 -11.35 - 6.49 - 8.53
lvmbia. 2 scent	. 87 . 41 . 71	-2.59 -1.01	3. 67 — 1.25 — 2.56	1.71 8 2.52 2	. 46 . 96 . 29	-1. 48 -0, 45	5.20 2.82 3.82	+1.37 -0.07	10. 39 3. 75 6. 67	+6.37 +0.66	1.84 0.37 1.85 0.32	-4.54 -2.32	3. 05 2. 64 5. 55 4 8. 43	2.52 1 0.20 2	. 71 . 88 – . 20 – . 20	2.98 3.27	0. 77 1. 50 - 0. 56 - 1. 76	2.53	0. 82 2. 25 0. 53 0. 96	-1. 01 -2. 03	0. 16 1. 48	1.38	2. 93	-7. 14 4° -3. 48 90	3.87	- 5. 81
refield 2 enton 1 ton Shoals 2 enville 2	. 43 -	-1.34 -2.94	1. 98 — 2. 61 — 2. 15	2.88 3 1.46 2 1 3.10 3 1.38 4	. 01 . 79 . 73 . 67	-1. 66 -1. 30 -1. 13 -0. 52	1.51 3.80 2.99 2.94 3.63	-1.65 +0.38 -0.49 -0.09	3. 17 5. 34 3. 49 5. 66 5. 73	-0.45	2.39 -	-1.37	3. 94 — 5. 62 — 2. 03		. 88 - . 56 - . 08	0. 14 0. 23 1 2. 54	0.84 — 1.10 — 0.48 1.87 —	3. 07 1	. 45 -	-0.81	0.54 -	1.86	1.68 +	7. 14 86 -1. 54 78 7. 15 8 7. 72 47	3. 64 -	9.21
shaw 2. idrum 1. rens 2.	. 84 - . 12 - . 85 - . 54 -	1.87 2	. 42 - .11 - .23 - .05 -	2. 50 2 2. 76 2 1. 43 4 2. 86 3	. 92]-		2. 61 - 3. 82 - 5. 89 -	-0.13 -0.70 -0.09 -1.84	4.28 3.81 2.61 5.53	+0.51 +0.61 -0.92	3.09 - 1.06 - 1.44 - 2.96 -	-0.84 4 -4.15 4 -3.44 5	1.03 - 5.16 -	0.86 4 0.98 6 0.40 6 2.97 6 1.93 3	64 + 77 +	0.22 0 1.30 0 2.42 1	0.50 - 0.92 - 1.08 - 1.14 - 1.75 -	3. 14 0 2. 48 1 2. 73 0 3. 59 2 3. 38 0	. 63 - . 05 - . 87 - . 47 - . 28 -	2.30 1.63 1.93 1.73	0,74 - 0,20 - 0,27 - 1,30 -	1.93 -2.00 -1.78 -2.21 -2.42	7.28 + 8.41 + 7.76 + 2.39 +	2.96 37 4.77 34 4.71 35 7.58 52 6.96 37	.65 - .91 - .88 -	9. 84 10. 20 9. 92 7. 19
Mountain   2	55 - 61 - 45 - 75 - 08 -	1.03 1 1.37 1 1.66 2 1.14 2 0.76 1	. 64 - 1 . 68 - 1 . 34 - 1 . 10 - 2 . 61 - 1	2.80 3 2.77 3 2.42 3 2.48 3 3.28 3	. 26 - . 42 - . 81 - . 25 - . 77 -	-0. 67 -0. 56 -1. 02 -1. 13 -0. 72	3. 64 - 2 31 - 3. 53 - 2. 66 - 2. 56 -	-0. 36 -0. 94 -0. 34 -0. 47 -0. 76	2.69 5.28 3.90 4.78 5.31	-0.52 +1.62 -0.27 +1.75 +2.01	1.77 - 2.75 - 1.96 - 1.83 - 0.89 -	-3. 01 7 -2. 43 5 -1. 41 5 -2. 15 7 -2. 77 3 -3. 16 5	53 + 5.94 + 78 + 63 - 10 +	0. 53 4. 1. 28 2. 2. 43 3. 1. 44 2. 0. 01 9.	28 -0 52 -2 42 -0 19 -2 74 +4	0. 86 2. 69 0. 94 2. 57 0. 17 0	T 1.64 - 1.68 -	3. 30 0. 3. 45 0.	47 - 34 -	2.46 (2.44 (2.10 12.65 (	0. 37 - 0. 46 - 1. 06 -	2. 00 2. 15 1. 74 2. 28	8.52 + 9.03 + 1.38 +	5, 05 84 4, 71 86 6, 83 45 4, 28 82 4, 71 42	. 86 -1 . 84 -1 . 42 -	10. 18 10. 22 5. 84
halla   2		1.11 1 1.58 4 1.24 1 0.17 1		2.97 2. 1.92 4. 3.15 2. 1.78 3.	82 - 59 - 36 -	-0.54 -1.45 -1.79 -1.60 -0.70	3. 62 + 3. 64 + 4. 63 - 4. 28 + 5. 60 +	0.29 0.23 0.04 1.30 2.41	5. 55 6. 22 4. 29 5. 18 6. 29	+1,52 +2,89 +0,10 +1,66 +2,22	1. 22 - 1. 58 - 1. 70 - 4. 01 - 2. 59 -	-3.14 5 -2.84 6 -2.92 3 -0.56 8 -2.13 5	. 90 + . 43 + . 62 - . 59 + . 45 +		84 —8 40 —1 74 —1 48 ±1	3. 58 1 1. 89 0 1. 94 1 1. 22 1		1.79 0. 2.76 0. 4.09 1. 2 61 0.	52 - 48 - 29 - 80 -	2.23 6 2.60 0 2.14 2 2.82 0	0.58 - 0.25 - 2.27 - 0.21 -	2.32 2.18 0.97 2.01 6	0.00 +4 5.56 +2 5.91 +1	5. 82 39. 2. 78 36. 1055 50. 3. 29 43. 5. 91 49.	62 — 87 —1 87 —	8.99 11.15 7.95 2.55
		1. 43 2 0. 92 1.					3.58 +	0. 16 0. 16	4. 69 -	-1. 10	1.90 — 2.21 —	2.46 5. 2.57 5	. 14 - 0	). 17 4. ). 51 4.	57 — 0 84 — 0	. 40 1.	. 01 -2 . 98 -3	2. 71 0.	- 1	2.00 0	100	1.93	. 72 + 5	5. 58 40. 3. 52 87.	24 -	7.82
The departures fr	rom	he no	malp	recipi	tatio	nare	comp	ited o	nly f	or engl	etatio	nanah	3		1	1	1	1			-		1	J	ı	

The departures from the normal precipitation are computed only for such stations as have ten or more years of record.

Monthly and Annual Mean Temperatures for the Year 1931, with Departures from the Normal.

	Jan	uary.	Feb	ruary.	Ma	rch.	Ap	ril.	М	ay.	Ju	ne.	Jı	aly.	Aug	gust.	Septe	mber	Octo	ber.	Nove	mber	Dece	mber.	An
Stations.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.
EASTERN PORTION, eaufort (near) ackville arleston eraw	49. 1 47. 4 49. 0 43. 8	-0.2 -0.9	51. 0 51. 8	-0.6	52. 0 53. 8	-4.7 -5.5 -3.6 -4.5	63. 0 63. 6	-1.5 $-0.9$	70. 4 71. 4	-1.4 -2.6 -1.3 -1.3	79. 4 78. 4	+0.4 +0.8 -0.5 +1.2	83.8 82.9	+2.1	80.4	-1.0	479, 6 80, 2 78, 7 78, 2	+4.3 +2.1	°70.0 69.7 70.2 65.2	+4.7 +2.4	62.8 59.8 63.0 58.2	+4.2	60. 4 54. 8 61. 3 52. 8	+6.8	67. 66. 67.
rguson	45.0 44.2	-1.5 -2.1 -1.5	46.8 48.8 47.8	+0.2 +0.3 +1.9	50. 6 49. 6	-5.1 -6.5 -5.4 -6.1 -5.2	61.0 61.6 60.1	-1.2 $-0.9$ $-2.8$	68. 8 69. 2 68. 4	-1.4 -1.9 -2.4 -3.6 -1.4	77. 8 78. 4 78. 4	0. 0 +0. 8 +1. 1 -0. 2	83.4 83.2	49 0	78.7 80.6 79.7	+0.1 -0.1 +2.1 -0.5	76.8	+1.8 +2.9 +3.3 +2.6		+1.3 +2.6 +1.9 +2.2	60.0 *58.9 58.3	+5.4 +5.9 +8.3 +€.2	57.6 *52.6 55.6 55.4	+9.2 +6.9 +7.4	64. 63. 64. 64.
ngstree rion rtle Beach angeburg lopolis	47. 2 44. 0 46. 5 45. 1	-4.6	47. 8 50. 8	-0. 6	49.4	-5.0 -4.7 -7.7	63.4		70. 1 69. 3 70. 7 66. 3		77.6	+0.6	483. 2 83. 1	+2.9	477.4 80.1	+0.9	77.0	+9.4	66. 6 67. 8		61.8 \$59.8	+5.2	57.9 55.1 57.1 56.8	+9.6	65.
nmerville nter dgefield nassee	45.9	-2.5 $-0.3$	49. 4 48. 8 48. 8	-1.2 0.0 0.0	51.8 51.0 50.2	-3.2	62.8 61.5 60.6	-1.1 $-1.2$ $-2.1$	70.4 69.6	-1.8 -1.7	78. 4 78. 0	+0.6	83. 3 82. 6 82. 4	+3.4 +2.9	°79.6 79.8 79.4 79.4 79.8	+0.2 +1.0 +1.2	77.3 78.4	+2.5 +2.9 +4.1	65. 6 67. 6 66. 2 67. 3 68. 5	+1.8 +2.2 +3.3	58.6 59.7 58.6 60.2	+6.5 +4.0 +4.5	*52.4 58.1 54.6 55.2	+7.8 +8.5 +6.8	65,
Division means and departures.  WESTERN PORTION.	46.6	+0.2	E1 6	101	27 0	4.0	co E	-1.1	00.0		00.0	10.5				+0.2						+4.7			
erson ear's Head. houn Falls	43.4	+0.8	46. 4		47. 6 37. 0 48. 0	-6.2 -4.7 -7.2	60. 2 49. 6 58. 6	-1.5 -2.6 -4.1	67. 0 56. 4 66. 6	-2.8 -2.5 -5.0	79.2 68.0 79.4 78.8	+8.4	81.8 72.6 83.0 82.9	+2.3	77. 6 66. 6 78. 8	+0.1 -1.0	77.5 67.8 79.2		<sup>m</sup> 65.2 56.6 65.6	+2.0	58. 5 51. 8 60. 1		51.6 44.4 54.2	+7.3	63 63
rokee (near) mson College umbia e West	46.2 42.8 44.1	+0.2	46.4	+1.6 +1.2 +0.7 +3.5	49.8 47.2	-4 9 -5.4 -6.8	60.8 59.2	-0.4 -2.5 -1.7 +0.8	66. 7 68. 9 67. 0	-2.4	79.2 78.8	+1.1	79. 6 81. 9 82. 8 81. 9	+8.7 +1.9 +2.7	76. 0 77. 8 79. 2 77. 4	+0.4	75. 2 77. 6	+4.7	61. 2 61. 8 67. 5 62. 5	0.0 +3.2 +2.9	54.6 57.5 60.6 58.6	+6.5 +6.6 +6.1	49.2 *52.4 53.6 51.5	+8.8 +6.4 +6.5	62 64 62
enwood th Springs shaw drum	42.2 42.6 43.9	-1.0	47.4 47.0 47.4 46.0	+3.0 +2.3 +0.1 +0.6	46. 5 46. 6 48. 6 47. 0	-6.2 -6.7 -5.4	58.3 57.9 60.7 58.8	-2.9 -2.7 -1.8 -1.1	67. 6 68. 4 70. 2 66. 2	-2.7	79.2 75.8 77.0 76.8	+2.0 -0.4 0.0 +2.0	82. 8 80. 2 83. 0 81. 8	+3.3 +1.1 +3.6 +4.8	77. 9 76. 0 78. 0 76. 6	-0.4 -2.2 -0.5 0.0	77.8 75.4 77.8 77.2	+4.4 +2.0 +2.8 +4.2	65.2 64.4 66.2 64.2		57. 6 57. 9 59. 0 57. 4	+6.0 +6.8 +6.5	50. 7 50. 0 *53. 4 50. 8	+6.9	62. 61. 63. 62.
le Mountain yberry ida tuck	45. 2 44. 2 40. 8	0. 1 -0. 7 -2. 2	48. 2 47. 3 48. 2	+2.0 +0.8 -0.9	48. 6 48. 5 46. 4	-6.4 -6.2 -6.5	59. 6 60. 2 60. 0 56. 8	-2.2 -2.2 -2.2 -3.5	67. 4 68. 4 67. 4 65. 5	-3.6 -1.9 -3.1 -4.1	79. 4 79.2 74. 9 77. 0	+2.9 +1.9 +1.0 -2.7 +0.4	82. 1 82. 6 82. 1	+2.1 +1.9 +2.5	77.3 78.6 79.2 77.4	-1.8 -0.9 +0.3 -0.9	76.5 78.2 *78.0 76.8	+2.0 +3.4	65 8	$+2.2 \\ +2.7$	58, 1 59, 8 59, 0 56 5 57, 0	+7.2 +6.2 +6.5 +3.8 +6.0	51. 2 52. 0 51. 8	+5.4 +6.7 +6.8	63.
liton lilalla insboro throp College	46, 6 41, 2 48, 7 42, 2	-0.1 -1.1 -0.3 -1.2	48, 6 47, 1 46, 8	-0.6 -0.3 +2.2	50.3 44.8 47.6 47.2		61. 4 57. 4 59. 7 59. 0	-1.7 -1.7 -1.5 -1.7 -2.0	67. 6 64. 6 68. 2 67. 2	-3.1 -4.0 -2.1 -2.3 -2.1	78. 9 76. 6 78. 6 76. 8	+2.1 +0.7 +1.9 +1.7 +0.4	*81.2 *80.4 83.2 82.4	+1.1 +3.2 +3.4 +3.0	75. 3 *78. 8 77. 0	-0.9 -1.1 +0.6 -1.2	78. 2 77.2	+5.0 +4.3 +8.8 +4.8 +8.9	68.2 62.0 66.5	+3.5 +3.5 +1.2 +3.9 +8.1	62.8 55.7 59.8	+7.2 +7.5 +5.8 +7.1 +7.4	53. 6 50. 1 51. 0	+7.8 +6.2 +6.5 +6.1 +8.2	64. 60. 68.
departures.	- 1	-0.4 -1.0	1	+0.4		-6.3 -5.8		-2.3 -2.1		-2.9 -2.8		+1.0	81. 6 82. 2	+2.3	1	-1.0 -0.6		+3.4 +3.0	- 4	+2.2 +2.3			1	+6.5	

The departures from the normal temperature are computed only for such stations as have ten or more years of record.

Reference letters (\*, b, \*), appearing in the table indicate number of days missing: For example, b represents two days missing, etc.

### WEATHER BY MONTHS. (CONTINUED FROM PAGE 49.)

occurred on the 3d, 4th, and 21st.

April -- Precipitation was somewhat above normal, and \$78,600. temperatures were considerably below the average, on the whole. Freezes occurred in Oconee County on the 7th and at Caesar's Head on the 28th. One person was killed by lightning. A moderate freshet occurred in the Santee River. The woods were generally green by the 20th. Average snowfall,

May .- Thermal conditions were notably below the seasonal average, and precipitation was considerably above normal. One person was killed by lightning. Hailstorms and a caused by lightning, and two persons were injured. Damag wind squall caused damage approximating \$2,700. Moderate by lightning and a wind squall approximated \$1,750. The freshets occurred in several streams of the Santee and Pee Dee Santee and Pee Dee Rivers were in moderate flood during th River Systems.

June. - Temperatures averaged somewhat above norma State stations on the 30th. Average snowfall, 0.3 inch. Sleet less than half the average. One person was killed by lightnin and two were injured. Damage by storm stress approximate

> July.-The month was unusually warm, and precipitatio averaged somewhat below normal. Three persons were kille by lightning, and 12 were injured. Lightning and wind cause property damage estimated at \$17,275. A freshet occurred i the upper Santee River.

August.—Temperatures ranged near the normal, and procipitation was considerably below the average. One death wa month. The losses in the Pee Dee System were estimated a 3,000, and movable property saved by warnings approximated 25,000.

September.—Precipitation averaged close to the lowest Sepmber rainfall of record, and the month was one of nearly aximum sunshine and prolonged heat. One person was filled by lightning, and three were injured. Lightning caused bout \$10,000 property damage.

October.—Drought persisted, with somewhat more than necessary to the normal rainfall, and temperatures averaged persiderably above normal. A small ternado occurred near t. Mill on the 9th, with damage estimated at about \$4,000, ightning and hail caused about \$8,000 property damage, reezing temperatures occurred at a few up-State stations on the 18th, 19th, and 31st.

November.—The drought became intensified, with unusuly low soil moisture and the lowest November average rainll of record. Temperatures averaged unseasonably high, he line of freezing temperatures advanced southward and ustward over the central counties by the 7th, with few excep-

ons. The woods were generally bare by the 25th. December.—The year closed with the warmest December nee 1889, and maximum temperature records for this month ere equaled or broken at many stations in the interior. Prepitation was close to the greatest December average of record, ith a superabundance up-State and deficient amounts along the coast. A general glaze storm, with some snow and sleet, seurred in practically the entire western portion on the 8th and 9th, with accumulated-sice on exposed objects one inch nick in the higher elevations. Moderate freshets occurred in veral streams of the Santee and Pee Dee River Systems, verage snowfall, Trace.

COMPARATIVE DATA FOR SOUTH CAROLINA.

	Ter	mperatu	re.	Precip	itation	Aver	age num days.	ber of	ing liree-
Year.	Меап.	Highest.	Lowest.	Ауегаде.	Average days with 0.01 inch or more.	Clear.	Partly Cloudy.	Cloudy.	Prevailing wind direc- tion.
7 8 8 9 9 0 1 1 2 2 3 3 4 4 4 4 5 5 6 6 7 7 8 9 9 0 0 1 1 2 2 3 3 3 4 4 4 4 5 6 6 7 7 8 9 9 9 0 0 1 1 2 2 2 3 3 3 3 4 6 6 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	62.3 66.8 66.0 66.0 66.0 66.0 66.0 66.0 66.0	102 104 104 105 106 106 106 106 107 107 107 107 107 107 107 107 107 107	53 130 100 111 113 3 8 8 9 100 100 111 112 116 116 117 17 17 17 17 17 17 17 17 17 17 17 17	48: 48: 48: 48: 48: 48: 48: 48: 48: 48:	101 104 108 86 88 88 88 89 99 99 90 90 90 90 90 90 90 90 90 90 90	1644 1643 1648 1678 1678 1670 1670 1670 1670 1670 1670 1670 1670	122 116 9 102 111 104 199 102 103 103 103 103 103 103 103 103 103 103	889 85 85 85 85 85 85 85 85 85 85 85 85 85	SW, † SS, SW, SW, SW, SW, SW, SW, SW, SW, SW,

† Also other directions.

MONTHLY AND ANNUAL CLIMATOLOGICAL DATA FOR SOUTH CAROLINA, YEAR 1931.

	T'e	mpera	ture		Pre	·cipitat	lon.	Rolettro	humidity		possible sun.		Smu of d				ind. p Ane.
Months.	Mean.	Departures.	Highest.	Lowest.	Average.	Departures.	Greatest local monthly amount.	Average-Sa.m.	Arerage-Noon.	Average-8 p. m.	Percentage of pos	Rainy.	Clear.	Partly Cloudy.	Cloudy.	Average hourly velocity.	Prevailing direction.
January February March April May June July August September October Docember	44. 5 47. 7 48. 8 60. 2 68. 0 77. 8 82. 2 77. 5 65. 9 58. 8 53. 5	-1.0 +0.2 -5.8 -2.1 -2.8 +0.4 +2.4 -0.6 +3.0 +2.3 +5.0 +6.9	79. 77. 78. 89. 95. 106. 107. 105. 107. 98. 87. 85.	10 15 18 29 33 43 58 50 40 28 21 20	2, 58 1, 77 2, 98 3, 24 4, 74 2, 21 5, 35 4, 84 0, 98 0, 54 7, 14	-0.92 -2.51 -0.97 +0.16 +1.10 -2.57 -0.51 -0.89 -3.14 -2.17 -1.76 +3.52	3, 55 4, 63 5, 29 6, 93 10, 39 6, 09 9, 20 10, 45 3, 27 3, 06 3, 34 16, 41	79 74 76 75 74 81 86 82 78 80	55 52 52 55 49 57 60 54	62 61 60 63 61 64 75 66 53 65 77	62 62 68 68 68 80 69 61 81 78 66 48	7 6 7 10 10 6 10 10 3 3 3	16 16 16 16 19	6	7 9 9 8 3 5	6.7 9.0 7.8 6.9 6.0 5.3 5.2 5.7 5.6	8 W. W. W. W.
Annual	63.6	*+6.7	107	10	37.17	+10.69	16.41	79	55	64	67	86	197	84	84	6.5	w.

<sup>\*</sup> From 45-year averages.

# KILLING FROST OR FREEZING TEMPERATURE DATES AND GROWING DAYS.

				4		
		199	81.		es-all receives or mo	
-	Stations.	Last in spring.	First in autumn.	Last spring date.	First autumn date.	No. of grow- ing days.
	EASTERN PORTION.					
	Beaufort (near)	Feb. 15	Mch. 10* Dec. 27	Feb. 24 Mch. 20	Dec. 4 Nov. 13	283
	Blackville	Mch. 12 Feb. 15	Mch. 10*	Feb. 20	Dec. 11	238 294
	Cheraw	Meh. 18	Oct. 19	Mch. 31	Nov. 3	219
١	Conway	Mch. 18	Nov. 2	Mch. 6	Nov. 9	231
	Darlington	Meh. 18	Nov. 7	Mch. 29	Nov. 4	220
	Ferguson	Meh. 12	Nov. 2	Mch. 26	Nov. 8	227
	Florence No. 1	Mch. 18 Mch. 18	Nov. 3	Mch. 19 Mch. 10	Nov. 12 Nov. 13	238 248
	Garnett	Mch. 18	Nov. 1	Meh. 15	Nov. 14	244
	Marion	Mch. 18	Nov. 2			
	Myrtle Beach		Dec. 8			
	Orangeburg	Mch. 18	Nov. 7 Nov. 1	Mch. 18 Mch. 5	Nov. 14	241
	Pinopolis	Meh. 18 Meh. 24	Nov. 1 Nov. 4	Mch. 24	Nov. 24 Nov. 8	264 229
	Society Hill	Mch. 18	Nov. 1	Meh. 16	Nov. 13	242
	Sumter	Mch. 18	Nov. 2	Meh. 20	Nov. 18	243
	Wedgefield	Mch. 12	Dec. 9	Mch. 20	Nov. 19	244
١	Yemassec	Mch. 18	Nov. 8	Meh. 15	Nov. 13	243
Ì	Normal	.,,,,,,,,,	.22	Mch. 16	Nov. 14	243
	Averages for 1931	Meh. 14	Nov. 22			253
1	Western Portion.					
1	Aiken	Mch. 10	Dec. 9	Mch. 17	Nov. 19	247
١	Anderson	Mch. 28 Apr. 28	Nov. 8 Oct. 31	Mch. 25	Nov. 9	229
	Caesar's Head	Mch. 17	Dec. 9	Mch. 29	Nov. 5	221
	Camden	Mch. 26	Nov. 7	Mch. 13	Nov. 14	246
١	Cherokee (near)	Mch. 30	Oct. 18			
ı	Clemson College	Mch. 30 Mch. 5	Oct. 18 Dec. 27	Apr. 1	Nov. 2	215
1	Columbia Due West	Meh. 18	Jan. 4*	Mch. 17 Mch. 22	Nov. 18 Nov. 16	246 239
	Greenville	Mch. 12	Jan. 31*	Mch. 30	Nov. 6	221
	Greenwood	Mch. 19	Nov. 7	Mch. 23	Nov. 9	231
	Heath Springs	Meh. 18	Nov. 7	Meh. 27	Nov. 5	223
	KershawLandrum	Mch. 26 Mch. 18	Nov. 7 Oct. 19	Mch. 28 Apr. 5	Nov. 7 Oct. 30	224 208
	Laurens	Mch. 20	Nov. 2	Apr. 5 Apr. 2	Oct. 30 Nov. 3	208
	Little Mountain	Mch. 12	Nov. 7	Mch. 25	Nov. 10	230
١	Newberry	Meh. 26	Nov. 1	Mch. 30	Nov. 5	220
	Saluda	35-3-00	Nov. 1	Apr. 3	Oct. 27	207
	Spartanburg	Mch. 30 Mch. 18	Oct. 18 Nov. 7	Apr. 5 Mch. 30	Oct. 19 Nov. 2	208 217
	Trenton	Mch. 17	Dec. 8	Mch. 20	Nov. 15	240
ı	Walhalla	Apr. 7	Oct. 18	Apr. 8	Oct. 28	203
	Winnsboro	Mch. 18	Dec. 26	Mch. 25	Nov. 13	233
	Winthrop College	Mch. 30	Nov. 7	Mch. 28	Nov. 6	223
1	Normal	36-2		Mch. 27	Nov. 7	225
1	Averages for 1931	Mch. 31	Nov. 16			230
1	Section Normal			Mch, 22	Nov. 10	233
١	Section averages for 1931	Mch. 23	Nov. 19			241
١						

Note.—Killing frost data in above table determined according to the following standard: Last or first clear or partly cloudy day with temperature of 22° or lower and last or first cloudy day with 13° or lower, but without rain sleet or snow; in case of precipitation, then the next preceding or succeeding day with proper temperature and weather was used. The average number of growing days is the difference between the average spring and autumn killing frost dates. \*1922\*





SCALE OF SHADES, Inches.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU, CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

u. XXXV. Columbia, S. C., January, 1932.

# GENERAL SUMMARY.

The month was the warmest January of record, on the ole, and January maximum temperature records were oken at many stations in the interior on the 14th. Precipiion averaged much above normal and was abundant in the erior, but comparatively light along the coast.

Soil moisture was further augmented up-State, while the nfall in the coastal sections was relatively light. The abrmal heat that prevailed throughout practically the entire onth was attended by improved pasturage and luxuriant owth of winter cerials, and winter truck made favorable adnce, but more rain was needed in the low country toward days, respectively. coast. The extremely mild weather militated against tensive hog butchering, which was delayed. Singularly, tree its remained generally dormant, although there have been ne bud swelling and stray blooms in hardy shrubbery. Tocco bedding began about the middle of the month. Wet soil

ular Weather Bureau stations in and surrounding the Secn, was 30.20 inches. The highest pressure was 30.70 inches at heville. N. C., on the 31st, and in the Section proper, 30.64 hes at Due West on the same date; the lowest pressure was 30th.

# TEMPERATURE.

The monthly mean for the Section, determined from rerature was 85° at Kingstree on the 14th, when many Janry records in the interior were broken. The lowest tempera-e was 19° at Walhalla on the 31st. Temperatures ranged m near normal to 31° above until the last day, when the ly means averaged 5° to 7° below normal.

# HUMIDITY.

The mean relative humidity, determined from reports of 9 ular Weather Bureau stations in and surrounding the Secn, was as follows: 8 a.m. 85%: noon, 62%: 8 p. m., 71% e highest percentages occurred along the lower coast, and rest, in the middle interior.

# PRECIPITATION.

The average for the Section, 55 stations reporting, was 3 inches, or 1.35 inches above normal. The amounts were lly distributed in four periods. In the western counties, the ounts ranged from 4 to nearly 10 inches, while toward the

coast the measurements ranged downward from 4 inches to less than one inch (Charleston County). The greatest local monthly amount was 9.82 inches at Caesar's Head; least local monthly amount, 0.98 inch at Charleston. The greatest amount during any 24 hours was 2.72 inches at Heath Springs on the 8th. The average number of rainy days was 12% above normal. Light hail occurred at Due West on the 26th. There was no snowfall.

The prevailing wind was from the southwest. The average hourly velocity, determined from 9 anemometer records, was 8.6 miles. The highest velocity for any 5-minute period was 38 miles per hour from the northwest at Due West on the 26th.

# SUNSHINE AND CLOUDINESS.

The average monthly simshine, determined from 9 automatic records, was 179.1 hours, or 57% of the possible amount. The average number of clear days was 15; partly cloudy, 6, and cloudy, 10, as against normals of 13, 7, and 11

# RIVER CONDITIONS.

Floods occurred early in the month in all streams of the Section, except the Black and Lynches Rivers. The flood crest in the Santee River passed Rimin on the 14th, Feigusen on the 16th, and James even on the 20th. In the Pee Dee System ditions up-State were generally unfavorable for much spring the flood crest passed Mars Bluff on the 15th and Poston on the 17th and 18th. The Josses in the Santee System approximated \$8.525, and the value of movable groperty saved by warnings was estimated at \$42,100. In the Pee Dee System, the losses approximated \$4.60, and the value of novable property saved by warnings was estimated at \$20,000.

# MISCELLANEOUS PHENOMENA (dates).

thes at Due West on the same date; the lowest pressure was 60 inches at Charlotte, N. C., and at Greenville, S. C., on Greenville, 18, 21; Laurens, 18; Santuck, 22; Spartanburg, 20th 28; Walhalla, 15. Solar: Charlesten, 6; Columbia, 11.12, 18.

Fog.—Beaufort (near), 14, 23; Blackville, 14; Catawba, 14; Charleston, 14, 15; Cheraw, 11, 14; Columbia, 1, 14; Due tts of 42 stations, was 54.5°, or 8.8° above the normal, and Landrum, 6, 8, 14, 17; Laurens, 1, 14; Mars Bluff, 1, 14, 24; bighest Jannary mean of record by 0.4°. The highest tem-West, 1, 14, 16; Garnett, 1; Greenville, 1, 6, 7, 14, 15, 16; burg, 1, 6, 7, 13, 26, 29: Sumter, 14; Walhalla, 14, 15; Winnsboro, 1, 14.

# MISCELLANEOUS DATA FOR JANUARY, 1882.

	sea	Tem	perati ees F	are. ahr.	tio	ipita- n, hes.	Win 4-cup A	d. nem.	re	lean lativ midi	re	age of pos-
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage o
Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C	80. 21 30. 19 30. 20 30. 19	46.7- 57.4 60.0 51.9	77 84 78 71	20 31 37 28	3. 99 4. 89 0. 98 4.09	0.76 1.60 0.47 1.49	9.7 5.0 10.1 6.5	nw. nw. sw.	83 89 85 85	59 58 65 67	70 74 78 69	46 68 63 59
Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga	30, 21 30, 21 30, 19 30, 19	56. 0 52. 4 51. 4 60. 8	80 74 72 80	30 28 30 35	3.78 5.10 6.82 1.72	1. 15 1. 79 2. 47 0. 83	7.5 8.7 8.6 11.8	sw. sw. ne. s.	85 88 82 87	58 68 66 62	63 68 73	51 47 54 57
Wilmington, N. C. Means and ex- } tremes	30. 22 30. 20	57. 3 54. 9	78 84	33 20	2. 57 3. 77	0.99	9. 8 8. 6	SW.	83 85	57 62	75 71	66 57

Precipitation, in inches. Number of days.

E | 2 | - | ES|

12

Temperature, in degrees Fahr.

84 14 28 31 46 74 14 26 31 42

75 75 80

> 73 14 28 82 14 28 75 14 19 79 14 26 75 16 25

84 14 19

14 f13 14

29

> 14 15

Western Portion.

Alken Anderson Bhirs Cresars Head‡‡ Cathonn Falls Canden

Catawba Chappells Cherokee (near) Clemson College Columbia

Crescent.....

Due West.
Edgefield††
Ellenton
Guston Shouls ††.
Greenville.

Greenwood Heath Springs Kershaw Landrone Laurens

Little Monntain Newberry Pelzer Salnda Santnek

Spartanburg.....

Trenton.
Walhalla.
Wlunsboro.
Whithrop College ##...

Division means and extremes ......

Section means and extremes ......

Alken Anderson Fairfield Greenville Abbeville Kershaw

York Newberry Spartanburg Oconee Richland

Spartanburg ....

Greenwood. ....

Lancaster...... Kershaw Spartanburg.... Laurens

Spartanburg
Edgefield
Oconee
Fairfield
York

508 222

562 402

850 351

49.6 52.0 56.0

52.4

51.4

52.6 52.6 53.7 50.8 53.7 50.8 +8.6 53.3 +9.2 +8.6 +10.5

53.8 +10.8

50, 6 56, 0 42, 9 53, 5 52, 4

52.5 +8.8

54.5 +8.8 85

+9.1 +10.0

+11, 1 72 14 30 31 31

+8.7 81 14 26 31 42 +9.4 82 14 26 20 44 JANUARY, 1932

Frank B. McCoy.
11. II, Russell.
Sarah L. Owens.
Crosar's Head—P. Mtn. Co
I. M. Parker.
Henry A. Brown.

James C. Farls.
William Spearman.
Spartanburg Water Works.
Prof. F. H. H. Callbonn.
U. S. Weather Bureau.

Duke Power Co.
U. S. W. B. Aerological Sta.
Agent C. and W. C. Ry.
A. A. Foreman.
Southern Public Utilitles.
U. S. Weather Bureau.

M. M. Calhoun, J. Marvin Bowers, John W. Hamel, R. Hartwell Wilds, D.D.S. L.G. Roff.

Miss Alberta Sease, John H. Baxter, Joshus Y. Jones, B. B. Blease, E. W. Jeter.

U. S. Weather Bureau, Mrs. S. E. Long, H. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.

11 s. 19 w.

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nw

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10

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0 9 15 6 10

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≥tations.	Countles.	= 1	Length of years.	Mean.	Departure fro the normal.	Highest.	Date.	Lowest.	Date.	Greatest duil range.	Total.	Departure fro the normal.	Greatest in hours.	Total snowfal	With precipit of the control of the	Clear.	Partly cloudy	Clouds.	Prevailing d	Observers.
Eastern Partion. Beaufort (near)‡‡	Beaufort	21	52	59.8	+8.3	80	18	33	31	41	1.55	-1.29	0. 75	0	7	19	9	3	s.	Mrs, R. L. Frlpp.
Blackville Charleston Cheraw	Barnwell	296 48	49 62 51	55. 8 60. 0 53.6	+8.2 +10.1 +9.8	73 78 77	†14 14 14	30 37 26	†20 31 31	43 23 45	5. 12 0.98 4. 57	+1.75 -2.04 +1.43	1.26 9.47 0.91	0	7 7	11 13	7	11 	sw.	Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway Darlington Effingham Ferguson‡‡	Darlington	25 175 106 63	44 88 42 47	58. 2 55. 4 	+10 0 +9.9 +8.9	82 80 84	14 †14	28 26	20 †20	46 50 	3.03 3.57 3.23 4.18	-0.56 +0.62 -0.30 +0.44	0.68 0.90 0.94 1.81	0	8 9 8	19 17	1	10 13 	SW.	Perry C. Quattlebaum. D. C. McCall. Wm. B. Gillespie. Henry C. Savage.
Florence 1 Florence 2	Florence	136 136 82	51 18 15	55. 2	+9.6	82	14	25	31	45 £45	3.20 3.28 1.80	+0.23 +0.31 -1.28	1.05 1.05 0.76	0	9 9	12 16 14	9 10 14	10 5 3	s. w.	H. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert.
Marion	Williamsburg Marion	54 68	51 8	58.6	+10.6	85 83	14	27 27	20 †20	46 45	3.32	+0.13	0.78 0.92	0	8 11 10	22 20	8	9	w. e.	Mrs. Ellen Scott. Dr. Charles B, Whilden. Rosa R. Dayls.
Mars Bluff. Myrtle Beach. Orangeburg Pinopolis†† Rinthi	Horry Orangeburg Berkeley	30 264	1 18 86 19	56.6 58.0 55.0	+10.3 +7.0	80 81 76	1 14 14	28 26 30	31 31 31	40 48	2. 14 2. 98 2. 33 4. 44	-0.63 -0.58 +0.82	0.65 1.20 1.10 1.03	0 0	8 8 5 8	19 13 23	4 7 0		s. sw.	Myrtle Beach Invest. Co. U.S. Pisheries Station, Miss E. P. Raveuel, Julian H. Aycock.
Society Hill	Dorchester	192 75 169 249	42 35 11 42	553.6 57.0 56-5 56.9	+9.5 +7.6 +9.9 +10.7	*80 84 82 81	14 14 14 14	<sup>b</sup> 26 29 26 29	†20 29 20 31	43 45 50	3.88 2.90 3.06 3.45	+0.69 -0.24 -0.50 -0.14	0.83 0.85 0.77 0.90	0 0 0	10 7 7 6	17 16 19 18	2 3 6 6	7	W. sw. ne. w.	E. D. Flelds, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey
Venussee Division menus and	Hampton	24	44	58.7 56.8	+9.8	83 85	14	26 25	31 31	45 50	2.79 3.14	-0.08 -0.11	1.02	0	8	19 17	6	8	se. sw.	W. C. Ihitson,

5.18 5.68 6.25 9.82 5.58 5.58

6. 58 6. 55 6. 77 7. 74 3. 73

7.47 5.10 6.18 5.88 7.18 6.82

6.60 +2.69 1.22 5.05 +1.56 2.72 5.22 +1.54 2.25 9.02 +3.72 1.88 4.45 +0.04 1.29

6, 52 5, 49 6, 90 5, 53 4, 81

6.50 +2.53 6.20 +2.58 7.95 +2.95 6.32 +2.77 4.27 +0.64

6. 22

ii

31 31 37 40 42

47 42 36

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20 25 25

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23 120

19 31 50 4.93

 $^{+1.48}_{+1.51}_{+2.58}$ 

+1.60 +2.08

+2.88 +2.91 1.27 1.67 1.68 2.66 1.49 1.52

1. 66 1. 62 1. 49 2. 48 1. 15

1.62 1.79 1.59 1.42 1.83 2.47

2.30 2.42 1.24 1.75 1.49

+2.94 +1.51 +2.25 +1.64 +0.97

+2.23 2.72

+1.35 2.72

31 48

# Daily Precipitation for January, 1932.

Stations.	Drainage-														-	Day	of m	onti	h.					-									
Stations.	basins.	1	2	3	4	8	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	80	81	Total.
Rustern Partion, ufort(near). kville	Const	1.26	::::			.oi	03 05 15	. 89 :	. 91	.77	. 02		T.	T. T T		Ť.	т.	Ť		T.					T.	Ť.,		. 10 . 52 . 14 . 67		. 38 T.	. 85 . 24 . 15	. 08	1. 55 5. 12 0. 98 4. 57 3. 03
lington      gham nson      ence 1   ence 2      nett.	Pee Dee. Lynches Santee. Pee Dee. do Savannah	. 94 1. 81 1. 05 1. 05 . 02				T.	15 19 03 21 18	.27 .89 .31 .19	.32 .31 .53	.70 .60 .82	. 08 T. . 70	.10	. 02													Ť.'		. 87			. 10 . 11 . 14 . 21 . 15	.19	8.57 8.23 4.18 8.20 8.28 1.80
rstree	Pee Deedo	. 92 . 85 . 49 . 05				.02	19 05 03 21 1	39 83 05 20	. 08 . 36 . 10 . 13	. 72	.09		.05	. 04				. 05								T.	.18	. 42		Т.	. 18	∵ii	3, 32 3, 20 3, 19 2, 14 2, 98 2, 33
ni	Peo Dee. Ashley Watereedo Ashepoo	.83 1.10 .12				T	09 13 25 11	10 72 90 11	.47 .10 .17 .27 .26	. 70 . 68 1, 02	.01														Ť.			. 20 . 77 . 85			. 65 . 18 T. . 45 . 50	.40	4. 44 3. 88 2. 90 3. 06 8. 45 2. 79
tem IIII	Edisto	. 03 1. 60  1. 52					67 33 00 49 22 1.	32 1 62 1 99 10	. 85 . 92 . 82	. 45 . 19 . 58	. 14		. 66	. 06	. 05										.18	.08	.98	.69	1. 10	.25	.41 .43 .25		5. 18 5. 68 6. 25 9. 82 5. 58 5. 58
son College mbla ***	Catawba Saluda Broad Savannah Congaree Enoree	1. 16 .04 .90 T.				.06	48 1. 48 1. 68 . 72 1.	87 1 06 1 53 87 62 1	.62 .38 .93 .89 .22	.91 .39 .24 .28	. 06	. 02	.01	.74 .54 T.	.04								•		.02 .12 .01 .03	. 05	.71	. 06		.06 .05 .69 .86			6.58 6.55 6.77 7.74 3.73 7.47
fleid       ton    Shoals         ville ***    wood         Springs	Savannah	. 41 . 83 . 02 . 01				.38	17 1. 08 1. 11 1. 11 T	51 1, 42 1, 19 1, 1, 1, 83 1, 60 2,	59 12 06 38 22 72	. 90 . 85 . 75 . 09 . 87 . 65	.02		.02	.40	.08			т.							.10	. 02	.55	. 46	.46	.32	. 40 . 62 . 45 . 36 . 42	.09	5. 10 6. 18 5. 88 7. 18 6. 82 6. 60 5. 05
riin iis Monntain erry	Lynches Ilroad Saluda Saluda Saluda Suluda Olo Suluda Suluda Olo Olo Olo Olo Olo Olo Olo Olo Olo Olo	. 64				T. 1. 0	12 13 13 17 15 18 1.	79 2. 69 1. 68 1. 60 2. 20 2. 24 .	25 88 29 30 42 94 85	. 73 . 43 . 39 . 95 . 57 . 56	T.		. 49 1	32 09 T.	. 14			.04					т.	. 05	.18	.05 .10 	.28	. 64 . 82 1. 00 . 10	. 11	. 94 . 40 . 05 . 34	. 30 . 38 . 40 . 35 . 28		5, 22 9, 02 4, 45 6, 52 5, 49 6, 90 5, 53
althurg *** alt	do	.08 .53	Т.			T. 2.6	71:	51 1. 24 . 90 1. 04 .	49 97 50 72 62	. 83 . 72 . 70 . 17			01	. 04 . 41 T	.03			T	Т.						. 12 . 03 . 40	.02	T	. 67 . 59 . 05	1	T. . 16.1	.26 . .75 . .00 .	:::	4.81 6.50 6.20 7.95 6.32 4.27

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of ervation. ||| Precipitation measured in the morning; amount their recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the nour period, midnight to midnight. \* Precipitation included in the next following measurement. Is parate dates of falls not recorded. T. Trace, or less than 0.01 inch.

# COMPARATIVE DATA FOR JANUARY.

	Те	mperatn	ire.	Precip	itution.	Averag	e nun days.	ber of	ailing d direc- tion.		Te	inperati	ire.	Precip	ltation.	Averag	e num days.	ber of	ing irec.
ear.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind	Year.	Меап.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di
	40, 1 46, 2 44, 9 54, 1 46, 2 38, 0 47, 9 47, 2 43, 8 42, 2 49, 2 44, 4 44, 0 45, 1 40, 2 41, 4 47, 0 53, 4 44, 6 45, 5	73 76 78 81 75 75 71 77 80 72 76 82 78 89 77 74 77 83 89 76 83 89	5 15 15 17 21 16 16 3 19 3 8 8 17 17 13 18 18 11 13 8 8 12 18 17	2.80 2.94 5.81 1.16 3.66 6.75 2.52 3.15 7.31 3.02 2.29 1.80 4.33 3.55 2.05 3.85 2.05 3.85 2.05 3.85 2.05 3.85 2.05 3.85 2.05 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.8	8 10 10 10 6 10 13 6 7 6 11 8 9 9 5 11 1 4 9 9 5 7 1	10 9 12 13 12 10 16 14 15 10 15 15 15 15 15 12 12 14	9 9 10 8 10 7 7 6 6 5 5 6 6 4 4 9 9 8 9 9 10	12 13 9 10 9 14 9 15 11 10 15 7 10 10 7	nw. ne. sw. ne. sw. nw. sw. nw. sw. nw. sw. n. nw. sw. n. nw. sw. w. n. w.	1911 1912 1913 1913 1915 1915 1916 1917 1918 1919 1920 1922 1923 1924 1924 1925 1926 1927 1928 1929 1929 1929 1929 1929 1929 1929	49. 8 40. 2 53. 8 46. 7 45. 1 52. 3 49. 7 37. 3 47. 1 46. 2 49. 0 44. 2 49. 0 44. 9 44. 9 44. 9 44. 9 44. 9 44. 5 44. 7 46. 7 46. 9 46. 5 46. 7	82 79 82 81 11 74 81 80 80 85 79 81 80 86 76 76 81 81 82 80 85 89	166 66233 18819 1009 -22 8667 1742 2011 18812 2015 10019	1. 58 4. 92 3. 21 2. 66 6. 31 1. 76 4. 45 5. 3. 66 3. 84 1. 53 2. 74 4. 34 8. 54 8. 54 8. 1. 48	5 9 8 8 5 9 9 12 100 7 7 7 7 7 9 6 6 9 11 11 11 14 5 5 100 11 7 7 9 8	14 13 10 16 12 10 10 13 19 19 12 15 10 17 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	8469697657665446666576	9 14 15 6 13 12 14 12 7 12 10 15 9 11 15 14 8 7 11 13 8 10	SW. W. SW. W. ne. ne. ne. ne. ne. w. W. W. W. W. W. W. W. W. SW. W. W. W. W. W. W. W. W. W. W. W. W. W

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Charleston   Maximum	58	58 58	42	40	47	62	61	59 57	46	40 52	46 50	56 6 67 6	60 7	0 6	0 5	4 7	3 7	1 54	42	71	73	76	65	64 7	70	61 6	59 7	5 6	2 50	68.6
Cheraws Maximum Minimum	48	40	36	30	35 59	45 71	55 72	56 72	48 59	30 55	30 59	40 5 72 7	6 8	5 5	9 5	5 7	4 7	7 6	4 63	73 21	77	78	72 60	65	70	55	70 8	1 7	8 6	43.6 1 69.3 47.0 2 67.5
Conway ) Maximum Maximum	56	40 65 45 58	42 58 58 5 5 5 5 6 6 6 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	54 40 52 53 53 55 23 55 55 55 55	40 68 47 55 35 59 36 59 34	55 72 62 62 45 71 55 65 41	68 67 55	57 67	48 59 52 60 49	40 52 30 55 33 55 31	46 50 30 59 30 60 30	48 t	74 8	0 8 0 8	0 7	1 69 7 6 4 77 2 5 5 7 1 5 8 7 4 5	9 7: 1 5: 3 7 6: 4 7 6: 5 6: 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0 70	6 64	71 28	75 31	75 50	65 55	65	70	68	71 7	7 6 10 6	4 5 0 2	6 43.2
Darlington //   Maximum	69				1 0	1	66				59			4 8				2 5	64			1			73	64	72 7	9 6	2 5	9 68.0
Ferguson \$\\ \psi \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	52	45	2 3	3 448 8 35 8 53 0 35 1 34 9 56 4 31 9 57 0 3 1 34 9 57 1 34 1 34 1 34 1 34 1 34 1 34 1 34 1 34	62 39 55 40 7 66	74 44 56 44	48 62 58 69	68 59 57 50	57 54 54 47 58 48 60 52 57 47 69	55 35 51 35 58 32 56 34 54 33 55 33	34 57 28 62 33 60 31	68 36 64 41 77 52 75 49 74 44 64 46	77 8 8 5 7 8 6 5 8 6 6 4 7 6 6 4 7 6 6 4 7 6 6 7 7 6 6 4 7 6 7 6	58 69 755 654 558 658 658 658 658 658 658 658 658 658	6 7 6 7 6 7 6 7 6 7 6 7	5 7 5 7 5 6 6 6 6 7 7 7 5 1 5 1 5 2 5 2 5 5 2 5 5 7 5 7 5 7 5 7 5 7 5 7	4 7 1 5 2 7 0 5	2 5 1 4 2 6 8 4	8 64 4 31 4 61 2 31	76 34 72 36 76 39 73 33 72 30 64 31	75 36 73 50 78 45 76 46 75 52 71	77 46 67 46 80 44 75 46 77 49 67	74 47 60 57 71 58 75 58 75 70 49 78 57	63 42 65 42 69	73 40 66 88	64 48 65 51 69 52 68 54 68 54 68 57	72 73 38 4 70 5 35 5 73 8 35 8 78 8 89 8 72 40 67 39	79 66 42 57 74 77 75 6 4 80 77 80 77 80 77 87 87 87 87 87 87 87 87 87 87 87 87 8	2 5 4 3 6 5 6 2 6 2 5 7 2 5 7 9 5 3 8 2 9 5 9 5 9 5 9 5 9 5 9 5 9 6 9 6 9 6 9 7 9 7 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 44.1 1 65.0 5 45.3 4 \$69.5
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Garnett   Minimum   Maximum   Maximum   Maximum   Minimum   Mi	. 72	6 4 5	2 3 5 5 4 3	9 56	2 43 6 58 1 37	74	62 70	70	60	56 34	60	75 49	77 64	35 8 59 6	1 5	8 7	3 7	6 6	7 68 3 25 60 68 10 25 88 51 13 29	73 33	76 46	75 46	5×	40 66 46 64 42 67 47	73 40 71 39 63 86	54	78 39	57 5	7 2	9 70.0 8 47.3 67.8
Marion / Minimum	70	5	9 5	9 57	58	74 54 70 53 65 52	70 62 67 61 61	69 53	57	54	61 30	74	75 64	58	51 5 59 5 61 5 72 5	7 7	8 6 72 7 55 5	51 4 71 6 57 4 78 6 60 4	0 6	72 30	75 52	49	49	42	39	54	40	58 5	3 2	4 67.8 7 46.0 9 66.1
Myrtle Beach   Maximum	. 49 - 72 - 54 - 70 - 58 - 80	6 4	0 5	9 57 0 3 8 50 9 3	3 58 1 38 6 59 2 40	65 52	61 59	70 57 69 53 65 57	69 50	55 33	57 31	64 46	70 57	78 57	72	52 5	55 6	60 4	18 2			100			-14.5		-			1
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Society Hill \$4 Minimum	. 6		2 3	58 58 33 3 50 5 35 3 59 5			60 666 52 71 62 657 658 642 586 696	54 62 59 74 59 62 51 63	58 48 53 47 61 55 56 49 57 48 58	56 36 53 32 57 33 53 33	58 36 57 30 62 32 57 31 78 34 64 36	74 49 78 31 78 37 74 45	74 64 78 44 76 53 72 64 78	81 58 80 58 84 59 82 56 81 58	77 64 79 60 77 60 79 63 78 62 79 63	74 51 56 56 71 49 78 51 73 49	53	68 8 55 4	54 6 40 2 56 6 45 2 64 6 41 2 59 6 41 3 63 6	6 26	30 74	51 77	31	41	39 71	43	39 73	29 75	65	26 b41.3
Summerville \$\$   Maximum	. 5	2 5	1 8	50 5 35 3 59 5	6 6	78	71 62	74 59	61 55	33	62 32	78 37	76 53	59 82	60 79	49	51	60	45 2 64 6	9 31	41 75	46 72	46 73	44 64 40 64	38 71	43 68	88 70	89 75	62 72	32 44.8 53 66.8
Sumter Maximum	. 6	7 6	14 50 40 56 40 59	59 5 34 3 59 5	3 5	52	57	51	49 57	33	31	45 75	64	56 81	63 78	51	58 73	60 74	41 2 59 6	6 32 3 61	51 73	51 75	58 68	40 64	70	68	69	75	52 79	28 46.2 53 67.0 29 46.8
Wedgefield Maximum Minimum	. 6	4 1	10	59 5 34 3 60 5	12 31 15 5 12 3 17 6 13 4	5:	58 69	53 69 57	48 58	54 34 57 34	34 64	75 60 76 53	60 78 65	58 88	62 79	53 73	58 77	78	41 3 63 6	1 36 6 75 2 46	5 77	52 80 45	58 71 59	41 67 42	73	64	73	79	71	54 69.6 26 47.1
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Aiken Maximum .	9	34	61	57	55 6	0 6	4 65	60	57	55 34	58 88	72 53	73 66	84 58	81 64	76 55	72 60	52	60	51 7 32 3 59 6	3 74 8 54 6 68 6 50 1 67 1 41 2 70 3 67 8 31	76 53 71 50	74 60 67 55 59 50 70 60 46	67 36 61 34	70 47 56 35 47 28 65 40 70 37	69 50 63	71 40 65	76 58 72 48 55 39 68 57 70 43	74 50 68 38 45 42 62 39 60	57 67. 28 48. 53 61. 26 42. 44 54. 20 34. 552 64. 25 42. 52 62. 42.
Aiken		54 42	61 37 54 36 50 27 61 88 51	57 37 56 35 59 27 60 32 51	37 4 53 4 30 8 47 4 27 2 58 5 27 5 50 5	6 6 8 4 8 5	4 65 3 5 0 60 2 4 7 5 3 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5 52 5 55 6 47 8 45 4 40 2 60 9 43	47 54 40	28	58 88 56 32 37 22 58 31 58	58 43 57 30	72 53	58 74 61 73	64 72 59 62 56 76 60 77 57	76 55 71 55 63 51 72 52 75 53	67 53 53 47 76 57 71 53	65 46 62 40 71 52 68 55	55 34 49 25 53 31 51 38	59 6 30 3	6 50	50	55	34 60	35 47	44	87 54 36	48 55	38 45	26 42. 44 54.
Caesar's Head / Minimum	3	41	50 27	59 27	47 4 27 2	8 3	3 3	4 40	48 34 62 40	45 21	37 22 59	30	67 87 79 62 70	48	56	51	47	40	25 53	30 3 54 6 26 8 52 6 28 3 56 7 27 2	1 41 70	60 47 78 52 59 45	50 70	60 27 60 31	28 65	44 60 35 59 41 66 47	36 71	39 68	42 62	44 54. 20 34. 52 64.
Calbonn Falls M Maximum Minimum .		62 46 62 46	88	60 32	27 3	8 3 4 · 6 5 6 5 6	2 4 6 6	9 43	40	28	31	69 46 73 32	62 70	48 82 62 80 56	60	52 75	57 71	52 68	31 51	28 8 56 7	2 70 3 50 0 67 8 31	59	60	64 37	70	66	71 40 72 39	70	60	25 42. 52 62. 25 42.
Camden 1/1   Maximum.		62 46	39	31	31					1			49			1		- 3				8				1	- 1	57	-	51 60.
Cherokee (near)   Maximum   Minimum		50 40	55 31	55 36	50 24 52 28 52 32 50 32 49 34	19 6 32 5 45 4 40 6 54 6 39 6	30 6 39 4 54 6	1 5° 8 4° 0 5° 7 4° 2 5°	567 7 49 7 50 7 40 7 50 7 40 9 54 8 50 8 40 8 40 8 40 8 40 8 40 8 40 8 40 8 4	3 49	52 26 55 28 57 58 57 58 57 58 58 58 58 58 58 58 58 58 58 58 58 58	52 42 57 44 73 50 67 46 59 48	71 49 75 53 70 63 72 63 70 57	75 59 75 60 80	73 57 78 56 76 63 78 61 70	70 49 74 52 74 58 72 54 71 54	67 47 70 52 72 60 72 54 59	63 47 67 54 71 49 64 44 65	54 29 59 29	60 6 23 2 62 6	77 71 44 45 66 70 28 44 71 75 35 54 37 66 38 61 40 5	68 45 74 48 3 76 4 54 72 51 8 68 1 54	54 68 56 65 66 45 66	63 31 65 30 64	56 88 62 44 70 48 64	64 40 67 44 65 51 62 46 64 45	62 82 65 84 69 44 64 98 63 42	46 64 42 75 56 74 50 66 47	66 87 67 42 67 38 67 38 65	24 39. 59 62. 26 41. 51 64. 30 47. 51 61. 28 43. 50 59.
Clemson College Maximum		40 55 40	56 34	61 31	52 28	45 40	54 6 43 4 63 6	8 4° 0 5° 7 4° 2 5° 8 5°	7 4	3 26 7 59 1 26 4 52 5 36 8 50 5 29	28	44	53	60 80	56	52 74	52 72	54 71	29	24 61 5 36 8 59 6 31 3	1 7	48	56 65	30 64	70	65	69	75 5 C	67	59 62. 26 41. 51 64. 30 47. 51 61.
Columbia Minimum.		40 65 51 57	40	39 56	32 50	39	53 5	0 5	3 4	5 36	38	50 67	63 72	61 72	63 78	58 72	60 72	64	54	59	37 6	72	66 45	59	64	62	64	74	67	51 61. 28 43.
Due West   Maximum   Minimum   Maximum		44 50	31 56 34 55 40 52 38 53 37	55 36 61 34 58 39 56 34 54 35	32 49	39 41	53 5 61 6 42 5 59 6	8 5: 0 5: 2 4: 60 5: 61 4	9 3	5 29	35	46 59	63 70	61 72 63 72 62	61 70	71	59	65	54 41 54 36 52 37	57 1 34	28 44 71 75 35 5- 37 68 39 50 38 61 40 5	68	66 46	41 59 35 61 39	46 54 46	64	63	66	65	50 59. 30 43.
Greenville (Minimum			1		-	38	40		AL.		1	1 4		- 1			- 1		-	55	60 7	1			_			65	72	59 62
Greenwood   Maximum   Minimum   Maximum		60 45 59 43	58 38 54 37 55 38 56	52 36 55	55 30 50 29 52	53 31 57 35	62 6 40 6 60 6	50 5 50 6 55 4 51 -5 57 4	9 5 9 4 0 5	6 5	0 3	2 59 1 32 7 69 2 36 5 71 2 46 3 50	68 46 66 61	72 62 71 60 76 61	73 62 73 60 74 60 74 61	74 54 70	78 56 65 53 67 55 66	70 58 65 58 69	65 34 59 35 54 34 55 35	55 31 55 20	60 70 82 5 67 6 86 5 68 7 68 7 67 7 27 5	68 0 52 7 71 1 50 1 74 0 49 3 67 0 52	72 52 67 59 66 58 68	60	62 86 64 41 67	63 45 63 47 64 48 64 42	63 39 65 85 67 38 63 34	65 38 70 50 74 53 58 46	72 50 65 36 66 40 65 37	59 62 28 42 59 62 27 43 55 - 68 27 44
Heath Springs / Minimum.		43	37	36 55 34 59	29	51 -	61	55 4	6 4	6 5 4 3 3 5 3 3 0 5	1 5 1 3 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	2 36 5 - 71	61	60 76	60 74	52 74 52 68	53 67	69 51	54	62	68 .7 88 .7	1 74	66	60 35 63 38 61 39	67	- 64 48	67	74 53	66	27 43 55 - 68 27 44 48 60 30 41
Kershaw ( Minimum. ) Maximum	400	68 45 68	38 56	55	31 50 28	36 40 37	49	59 5	5 5	3 3	7 5	3 50	68 62 73 49	78 58	74	52 68 50	66 49	51 61 51	55	62 28 63 24	67 7 27 5	3 67 0 52	59	61 39	41 55 40	64 42	63 34	58 46	65 37	48 60 30 41
Landrum Minimum.		40	37	38 56	28 53				- 5	4 3	2 5	6 67	73		76 60					1		1			64	66	68	75 49	68	52 64 25 42
Laurens/ Maximum / Minimum / Maximum		63 42 62	56 35 59	30 55 32	28 53	38 50 35	42	48 5 60 5	8 5	7 2 3 5 4 2 5 5	8 3 1 5 9 3	0 45 4 69	73 57 69 62 73 62	74 62 81 58 82 59 82	60 76	76 50 73 54 76 53 75	72 58 70 55 72 56 73	67 55 71 54 70 53 68	63 34 62 33 56 85 64	62 26 61 31 62 26 64	69 7 30 4 71 7 50 5 70 7 82 64	2 74 6 50 4 70 4 56 2 74 0 49 10 72	69 57 69 69 69 69 69 69	64 94 64 42	44 65 43 65 45	46 65 44 67 48 68	68 86 68 99 71 97	75 49 75 50 78 51 69	68 89 68 49 69 86	52 64 25 42 52 68 26 44 54 65 26 48 55 65
Little Mountain ) Minimum		42 62 40 63	35 59 35 57 37	32 58 31	28 53 30 52 29 55	85 50	61	54 61 5 55 5	18 4	17 2 13 5 14 2 15 5 18 9 15 5	9 3	0 45 4 69 5 45 8 71 2 46 4 71	62 73 69	82 59	76 60 78 60 76	76 53	72	70 53	56 85	62	70 7	0 49	65	84	6.5	67	71 97	51	69 36	54 65 26 49
Newberry Minhmun		43 63	37 60	31 59	29 55	38 52	45	55 6 61 8	56 5	18 9	4 5 0 3 5 5	4 71	71				1					72	76	66				1		
Sainda / Minhinm ) Maximum Snotnek / Minimum		55 43	57 87	56 28	55 24	56 34	61	61	55	16 2	2 5 7 2	2 70 7 44	72 64	76 58	77 58	76 48	73 53	68 54	55 30	51 23	-	1 45			40	40	33	1		1
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Sparianburg   Maximum   Minlimum   Maximum		41 63		34 59 35 61 32 57 34 57 31	30 54	42 38 56 40 45 37 58 82 57 35	41 60 51 54	46 62 53 59	48 58 47 53 44	36 3 52 5 43 3 53 6 37 2 49 4 47 5 60 6	56 66 680 851 556 552 8531 556 558 558 558 558 558 558 558 558 558	11 32 39 72 45 45 33 55 27 36 56 71 32 84 54 70 29 29	5 71 5 58 71 6 62 74 6 52	82	72 60	72 52 75 54 72 46 73 58 75 55	62 48 79 58 64	48 73 56 67	33 59 38	28 68 34 60 23 61 82 60 28	65 20 78 40 65 28 70 35 67 32	72 65 50 51 74 75 50 51 50 51 68 69 88 48 70 75 42 55 70 75	6' 6' 44 7 7 1 5 6 8 5 5 6 8 5 6 8 6 8 6 8 6 8 6 8 6 8	6 89 6 86 6 59 4 29 5 60 4 40	65 44 65 66 66 66 66 66 66 66 66 66 66 66 66	43 9 69 4 45 2 64 8 45 6 65 1 46	62 38 38 73 40 41 61 61 61 62 63 64 61 61 65 65 66 66 66 67 68 68 68 68 68 68 68 68 68 68	66 48 77 49 56 45 74 42 72 48	41	59 66 28 45 51 59 19 81 58 66 26 44 58 6
Trenton / Minimum / Maximum Walhalla / Minimum	::::	41 63 51 52 41 62	34 57 35 55 29	61	54 31 50 25	45	54	59	53	53 5	1 8	3 55 7 36	5 74 5 52	82 61 75 55 79 60 70	72 60 73 56 74	72 46	64 51	49	551	60	65 28	88 48	8 5	4 25	41	45	32	45	36 58	19 91 58 6
Winnsboro M Minimum	1	62	56 37 64	57	25 52 32	58 82	41 61 40	57	53	19	31 5	56 71 32 34	68	79 60	60	73 58	51 69 58 69	49 69 57 65	53 37	82	35 67	88 48 70 75 42 55 70 75 46 50	3 5	4 40	6 6	1 46	65	42 72	57 70	26 4: 58 6:
Winthrop College / Minimum		44 54 39	64 34	57 31	53 28	57 35	60 42	62 44	60 45	43 5	28 2	9 29	9 61		60 71 58	55	49	54	88	28	32	46. 5	0 4	F 3	5 4	2 41	R 40	48	32	,25 4
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Reference letters (\*, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

% Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 2-26-32-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# 1Hr 1111

# CLIMATOLOGICAL DATA

No. 2

NORTH CAROLINA SECTION.

LEE A. DENSON, Meteorologist.

OL. XXXVII. RALEIGH, N. C., FEBRUARY, 1932.

CORRECTIONS.

January, 1932.—Parker, mean maximum temperature should be 50.5, mean monthly 40.6, departure +8.4. Pluchurst, mean temperature should be 52.6, departure +8.9.

Halos(lunar).—Asheville, 12, 13, 17, 18, 19, 22; Arcola, 17, 19, 22; Boone, 12, 13, 18, 19; Charlotte, 13, 17, 19, 22;

Cullowhee, 13; Greensboro, 12, 13; Hatteras, 13; Highlands,

22; Morganton, 23; Parker, 19, 23; Raleigh, 18, 19, 23; Southport, 17; Waynesville, 22; Wilmington, 13, 19, 25.

### GENERAL SUMMARY.

Weather conditions continued very mild, exceptionally so, during practically the entire winter senson to date. Mean mperature for February, 49.7°, is the highest since 1890 expt in 1927, and the month passed without a temperature bew 20° at Asheville, or below 20° in Raleigh, and not as low the freezing point in most of the coast section while the west at Hatteras was 30°. There was no snow except small mounts on some of the higher mountains. The rainfall was ther heavy along and near the Temessee border, but below ornal in most other sections and less than half of normal at me of the eastern stations, the deficiency for the State as a nole being about one inch. Strong winds eaused slight local attered damage, mainly on the 8th near Red Springs and allace.

Mild weather resulted in considerable delay in killing ags. Small grain and winter truck made favorable advance of conditions were favorable for many outdoor activities, owing and planting or preparation for planting potatoes and her early spring truck. Many shrubs and bulbs, strawberries ad some tree fruits were blocating prematurely though no ach bloom to any material extent in commercial orchards, one scattered roses continued in bloom in Raleigh throught the month, and so far as can be ascertained there is no relection of a similar occurrence here in late winter. Forest es were causing some damage as the month closed.

River stages averaged rather low and were considerably low normal at the close of the month.

# TEMPERATURE.

The monthly mean temperature for the State, as shown by a records of 68 stations, was 49.7°, or 6.9° above the normal emperature was 10° or more above normal on the 3d-4th, 6th 13th, 26-27th, 20° or more above on the 3d, 11th and 12th, id slightly below normal only on the 1st and 21st. The ghest observed was 85° at New Bern on the 11th; lowest, 8° Mount Mitchell on the 4th. Highest monthly mean 56.0° Southport; lowest, 31.0° at Mount Mitchell.

# PRECIPITATION.

The average precipitation for the Section, based on reorts of 82 stations, was 3.10 inches, or 0.97 below the normal, mounts were above normal in all counties along the Tennesse & order and below normal in nearly all other parts of the State ith least rainfall in portions of the coastal plain. The largest onthly amount was 9.83 inches at Andrews; least, 1.41 at inston. The snowfall was very light and confined to parts the mountain region.

# MISCELLANEOUS PHENOMENA (Dates)

Gales.—Hatteras, 4, 5, 28; Raleigh, 4; Wilmington, 5, Holos (solw).—Boone, 1, 9, 22, 23, 27; Charlotte, 9, 22, 4, 27; Greensboro, 1; Highlands, 13, 22; Morganton, 1; illmington, 12, 23, 24.

# PRESSURE. WIND. HUMIDITY AND SUNSHINE.

		nosph	erlej	ressur	e			ind.			Re	disti	re	sunshine.
	(rec	luced :	to se	i level	.)	direc.	riy	M	aximu	m.		r Cei		oi sun
Stations.	Mean.	Highest.	Date.	Lowest.	Date.	Frevalling dition.	Average hourly velocity.	Velocity	Direction.	Date.	S a. m.	12 Noon.	S p. m.	Percentage o
Asheville Charlotte Greensboro Hatterns Roleigh Wilmington Norfolk, Va	30, 09 30, 07 30, 07 30, 05 30, 08 30, 05	30, 68 30, 70 30, 66 30, 71 30, 78	1	29, 56 29, 47 29, 50	28 28 28 28 28 28 28 28	DW. SW. SW. 110. SW. SW. ne,	9. 2 6. 6 8. 4 13. 3 8. 8 9. 4 12. 1	25 31 48 33 33	nw. nw. nw.	4 4 5 4 5 5	82 76 80 80 72 78 72	55	62 70 84 56	65 49 51 59

### COMPARATIVE DATA FOR FEBRUARY.

	Яe	mperatu	re.	pre-		Number	of days.		in:
Year.	Меап.	Highest.	Lowest.	Average precipitation	Rainy 01 or more).	Clear.	Partly cioudy.	Cloudy.	Prevailin wind.
1885 1889 1889 1889 1889 1891 1891 1892 1893 1894 1895 1896 1996 1990 1990 1990 1990 1990 1990 19	48, 9 46, 6 6 6 8 8 8 6 6 8 8 8 6 6 8 8 8 6 6 8	2 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	\$ 92.2 \$ 1.255.5 \$ 5.755.5 \$ 5.41-1 \$ 5.755.5 \$ 5.41-1 \$ 5.755.5 \$ 5.41-1 \$ 5.755.5 \$ 6.61-1	100 100 100 100 100 100 100 100 100 100	5 8 8 8 8 7 7 5 5 6 8 8 8 8 7 7 5 5 6 7 7 14 4 14 14 14 14 14 14 14 14 14 14 14 1	111 111 99 877 696 667 667 667 667 667 668 667 677 668 667 677 668 667 677 668 667 677 668 667 677 668 668	12 10 11 11 11 11 11 11 11 11 11 11 11 11	SW.  SW. SW. SW. SW. SW. SW. SW. SW. SW.
Extremes.	42,8	86	-19	4.07	9	12	6	10	911+

FEBRUARY, 1932

Climatological	Data	for	February,	1932.
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					Clima	tolog	ical	Data	for	Feb	uary,	1932								
		racord	:	3	l'empera	ture.	in deg	rees Fa	abr.		Precip	itation.	in inc	nes.	Nun	iber o	of da	ays.	tion	
Stations.	Counties.	Elevation, feet.	years.	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	With precipit on (0.01in. or more)	Clear.	Partly cloudy.	Clouds.	Prevailing direction of wind.	Observers.
Eastern District. Beanfort Beltaven Edenton. Elizabeth City.	Carteret	30	16 31 55.3 +7.2 72 12 35 1 28 3.00 -1.34 0.86 0 12 13 8 8 no. U. 4 22 51.4 +4.9 76 †11 27 21 35 3.65 +0.02 0.61 0 11 17 0 12 w. W. 30 37 50.6 +7.4 80 11 26 1 37 2.62 -1.61 1.00 0 9 15 7 7 8w. E. 80 11 26 1 37 2.62 -1.61 1.00 0 9 15 7 7 8w. E. 80 11 26 1 37 2.62 -1.61 1.00 0 7 7 13 6 10 no. W. W. W. W. W. W. W. W. W. W. W. W. W.														U. S. Fisheries Station W. C. Harris. E. R. Conger. W. H. Sanders.			
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Kenansville Kinston Lumberton	DateDuplin	60 46 102															Mrs. Laura M. Gavin. Alex Williams. O. O. Dukes. Mrs. Rosa L. Drinkwater.			
Manteo. Nashville. Newbern New Holland. Red Springs. Rocky Mount.	Aush Craven Hyde Robeson	190 12 201 105															J. B. Boddie. James R. Hill. New Holland Corporatiof J. D. Callahan. Elisha Williams. J. H. Applewhite. R. F. Sholar.			
Scotland Neck Sloan# Smithfield Southport Stonewall Swansboro	implies tolniston Branswick Paulico	50 146 18 17	28 39 42 77 9	49.2 452.6 51.6 56.0	+5.9 +6.4 +8.5 +7.1	81 881 82 71	11 11 11 †10	24 d <sub>21</sub> 26 30	1 21 1 1	40 29	3, 86 2, 17 2, 15 3, 25 2, 08	-0, 44 -2, 14 -2, 16 -0,78 -1,45	0, 90 0, 60 0, 58 0, 84 0, 66		8 10 13	15 14 12 11	7 6 4	8 11 14	SW. SW. SW.	Mrs. C. E. Taylor. A. R. Gatlin.
Weldon Wendin Wendin	Onslow. Edgecombe Hallfux Washington Pender	50 81 16	9 47 60 17 23 61	50. 4 47. 6 50. 9 564. 8	+7.1 +6.1 +5.7 +7.1 +8.0	83 82 83 83	11 11 11 11 11	25 21 23 °26	1 1 † 1 21	39 43 42 °42 29	2.30 2.76 2.33 2.24	-1.83 -0.78 -1.52 -1.98 -1.42	0.92	0	9	13 15 16 14 8	5 5 1 8 9	12	w. sw. sw.	. W.J. Davis. E. V. Zoeller, L. A. W. Shenrin. Branch Experiment Sta. Branch Experiment Sta. U.S. Weather Bureau.
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Graham Greenshoro Henderson High Point Louishurg	Alanmace Guilford Vance Guilford	843 435 966 375	30 51 39 10 41	49.8 47.9 50.5 49.2	+8.3 +7.0 +7.9	80 80 80 80	11 11 11 11	28 19 25 24	24 24 † 1	42 41 44	2.79 2.74 2.20 3.53 2.18	-0.92 -1.17 -1.71 -0.13 -1.81	0.56 0.70 0.69		0 12 0 9 0 9	13	3 6 6 4	10 8	SW.	Dr. W. R. Goley. Mrs. A. R. Horry. J. P. Renn. A. B. Horney. Robert A. Bobbitt.
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District menns and Western District. Altapass. Andrews Asheyille Bunners Etk.	· Mitchell	2,740	19 17 53	43.2 47.6 47.3 42.8	+6.8 +5.4 +8.8	84 76 73 80	11 11 10 10 10	11 19 20	1 1 1	46 43 41 39 37	2.53 9.83 2.81	-0.78 +4.28 -0.46 +1.14	0.5	T	0 12 0 11	12 10 12	9	9 8	s. nw nw w.	Mrs. John S. Bowen. G. Wayne Walker. U. S. Wenther Burenn.
Brevard	Transylvania Swain	2,230 2,000 2,100	24 30 44 22 19	43.6	+7.4	75 75 678	10 10 10	a16		39	4. 67 4. 82 6. 90 5. 64 2. 46	-0.33 +1.7 +1.86 -0.98	2.05 3 1.75 1 1.05 5 1.0 5 0.75	5	0 8 0 11 0 12 0 8	15 18	11	i ::;	nw	Miss Fairie Belle Lowe. J. T. C. Wright. Miss Enricene Poindexte. G. H. Martin. Frank H. Brown. Mrs. Emma Bodenheim
Ellem Hendersonville Hickory Highlands (near) Hot Springs Jefferson Lengtr	Macon	3,350	35 19 46	48.5 50.6 48.0 48.0	+7.7 +5.7 +9.3	81 77	10 11 10 10	25 25 21	† 1	43 37 35 42 37	2.79 2.23 5.15 4.62 3.95	-2.25 -1.75 -2.40 +1.80 +0.50	2 1.03 8 0.6 6 1.2 6 1.1 6 1.3	7 4 T	0 10 0 10 . 15 0 10 . 15	0 10 2 10 1 18 2 10	15	1 10	nw nw	Rev. Cyril Ruhlmann.
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or nore years of record, but all complete reports are used in determining section or division means. Reference letters, (a, b, c), a paramin in the table indicate number of days missing. For example, b represents two days missing, etc. 430, on other date. #Herevect too late to be included in means and summaries. If Post-office addresses of these stations are as follows: Of Rock House, Highlands of Settle, Harmony; of Sloan, Walace. T. Precipitation is less than 0.01 inch rain or melted snow.

# Daily Precipitation for February, 1932.

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Wilmington   Siachiman   Siach	Askerter   Askerter																		
Wilmington   Siachiman   Siach	Maximum   45																		
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Carlot   Deletics   Communication   Communic	Fundament Brainer Control Designation    1														65.0				
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Chapel IIII.   Maximum   52   48   47   57   58   38   38   59   36   48   47   61   48   47   57   58   50   50   51   41   60   62   52   68   73   67   57   67   67   67   67   67   67	Part   Part																		
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Carenbalum   Maximum   50   48   64   70   71   62   62   60   75   75   75   62   65   75   75   75   75   75   75   75	Sulfish.   1   2   5   4   5   6   7   8   9   10   11   12   73   14   5   15   75   75   75   75   75   75																		
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Releich   Miximum   30   34   57   41   41   46   47   61   66   67   61   66   67   61   66   67   61   66   67   61   66   67   61   66   67   61   66   67   61   66   67   61   67   61   67   61   67   61   67   61   67   61   67   61   67   61   67   61   67   61   67   61   67   61   67   61   67   61   67   61   61	A Maximum	Sultions   1   2   5   4   5   6   7   8   9   10   11   12   13   14   15   15   17   15   10   10   12   12   13   14   15   15   15   15   15   15   15																	
Salbahry (Miximum 42, 42, 43, 43, 47, 44, 47, 47, 47, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48	Mariana	Section																	
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Wissian Spice   Minimum   24   28   38   59   30   30   34   36   33   40   40   40   40   40   50   50   30   31   40   40   40   40   40   40   40   50   5	Salisbury / Maximum	Sunisher:    1																	
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Highlands   Viliatium   So   49   60   60   50   57   38   47   25   43   56   48   56   10   60   60   60   60   60   60   6	Hickory / Minimum	51 25	52 64 36 46	70 57 6 52 29 3	5 66 67 2 40 49	81 4 56 7	6 51	60 60	40 8H 47 40	38 3 40 6	0 57	1 58	41 56	60	60 65 30 39	69	65 5 42 8	9 36	87
Defference   All Minimum   24   22   48   36   25   25   25   25   25   25   25   2	( Maximum	25	49 66 1	33 25 8	7 38 4		3 55	48 35		1 8	6 57	50 56	52 53	52		- 1	67	70	
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Tryon. (Vinjumm 22 37 43 48 32 27 33 48 32 46 54 50 55	Mount Mitchell / Minimum	32	99 35	8 9	21 24 2	7 60	36 41 77 78	23 18 72 65	26 30 57 41	44 6	801 65	54 60	54 58 32 8	65	69 70 28 85	76	39	48 41	3
	Tryon / Minimum	22	37 43	48 32	27 83 4					1	1 1	1		1 1	s missi	ng, etc	n.	1	

Reference letters, (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

in Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 3-16-32-1,025

or. XXXV.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

COLUMBIA, S. C., MARCH, 1932.

# GENERAL SUMMARY.

The month was unusually cold, on the whole, and the ction minimum temperature was the lowest of record for arch, while March minimum temperature records were oken at a considerable number of interior stations. In fact, e period, 6th to 15th, was the coldest and most extended of ecipitation averaged somewhat below normal.

Vegetation was well advanced at the beginning of the onth, due to continued mild temperatures. nded period of unseasonably cold weather during the winter d early spring prevailed from the 6th to the 15th, and the ezing was particularly severe about the 10th, when all white tatoes and spring truck and gardens were killed, except such rdy vegetables as cabbage and turnips. Considerable damage sulted to tree fruits, which had begun to blocm, but winter reals sustained no material less. Hog killing on an extensive de proceeded during the cold period. Succeeding mild ather was attended by much replanting. Precipitation was termittent and generally timely, and spring plowing was ace, although retarded in some upper counties ly wet soil.

# TEMPERATURE.

The monthly mean for the Section, determined from re-rts of 43 stations, was 51.4°, or 3.2° below normal. The thest temperature was 86° at Garnett on the 3d and 21st 1st to the 5th, 17th to 22d, and 25th to 27th, when the late as the 16th and at a few up-State stations on the 29th, property saved by warnings was estimated at \$3,900.

# PRECIPITATION.

The average for the Section, 55 stations reporting, was 7 inches, or 0.27 inch below normal. Intermittent showers re prevalent throughout the month, and the amounts were ly distributed. The monthly measurements ranged from pover 8 inches in sections of the western counties, but in major portion of the Section, the amounts ranged down-d from 4 to less than 2 inches. The greatest amount during 24 hours was 3.75 inches at Winthrop College. Rock Hill, the 6th. The average number of rainy days was 12% be-normal. Light hail occurred at Clemson College and drum on the 22d. Sleet occurred at Beaufort (near) on 23d and at Blackville, Ferguson, and Marion on the 9th. Measurable snowfall was general up-State on the 9th, and ny March records for snow depths were broken. Snow ries occurred up-State on the 12th, 13th, and 14th.

A series of violent thunderstorms traversed lower Greenville, upper Laurens, lower Spartanburg, and western Cherokee Counties shortly after midnight on March 22. A tornado, apparently of the bounding type, dipped near Crescent and traveled northeastward over the Berry Shoals, Abner's Creek, and Fairmont communities in a path 350 to 400 yards wide and about 10 miles long, where the bulk of personal injury and property damage occurred. It apparently reappeared a few miles east of Cowpens and traveled eastward about 5 miles into Cherokee County, where it disappeared. Three persons were killed, one died from exposure, and 34 were injured. Thirty-five homes were wrecked or damaged, and about 100 persons were left homeless. The total damage has been estie winter and early spring. The snowfall on the 9th was the mated at \$200,000, of which about \$100,000 was due to violent aviest of record for March at many up-State stations. The straight-line wind squalls in a general path about 6 miles wide. During the same series of storms, lightning struck a cotton warehouse at Jonesville, the resulting fire causing an approximate damage of \$15,000.

THET he prevailing wind was from the west. The average hourly velocity, determined from 9 anemometer records, was 10.7 miles. The wishest velocity for any 5-minute period was 49 milliber hour from the southwest at Greenville, S. C., on

the 22d and at Wilmington, N. C., on the 28th.

UNIVERSITY SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 9 automatic records, was 253.8 hours, or 68% of the possible amount. The average number of clear days was 17; partly eloudy, 6, and cloudy, 8, as against normals of 15, 7, and 9 days, respectively.

# RIVER CONDITIONS.

Moderate freshets occurred in the up-State streams from at Summerville on the 22d. The warm periods were from the 6th to the 8th and again in the northwestern streems about the 23d and 24th. The Santee River was close to or somewhat ly means ranged from 5° to 18° above normal. The lowest above flood stages throughout the month. The Pee Dee River uperature was 5° above zero at Caesar's Head on the 10th, was somewhat above flood stages at Mars Bluff from the 8th to the lowest March minimum of record, while March mini-the 20th, and again on the 31st; at Poston the river was in m temperature records were broken at a considerable number flood from the 18th to the 18th. In the Pee Dee System, the interior stations. The cold periods were from the 6th to the losses approximated \$6,390, and the value of movable property h and on the 23d and 24th, when the daily means ranged saved by warnings was estimated at \$10,750. In the Santee m 5° to 25° below normal. Late spring freezes were general System, there were little or no losses, and the value of movable

# MISCELLANEOUS DATA FOR MARCH, 1932.

	g es		perat ves l'		tio	ipita- n, hes,	4-cup A		re	Mean elati midi	re	soi pos-
Stations.	Barometer, level.	Mean.	fighest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns
Asheville, N. C Angusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Meaus and ex-/ tremes.	29, 96 29, 94 29, 95 29, 92 29, 94 29, 97 29, 92 29, 96 29, 93	42.6 53.9 55.4 49.0 52.6 50.0 49.6 56.4 51.8	74 81 82 79 82 79 77 84 79	10 22 28 17 19 17 17 17 24 21	3. 47 4. 74 2. 62 5. 39 3. 03 3. 21 5. 41 2. 34 3. 94 3. 79	0.90 2.76 1.27 2.97 2.11 1.59 2.16 0.67 2.00	10.4 7.5 12.4 8.0 9.6 11.4 10.) 14.2 12.7	nw. nw. sw. sw. w. w. sw. w. nw.	69 72 71 68 68 70 62 71 71	46 38 51 50 46 44 43 52 57	56 45 70 48 47 49 59 65	58 74 70 74 64 69 73 65 68

<sup>\*</sup>Other directions also.

Максн, 1932

					Clim	atolog	rical	Date	for	Mai	rch, 1	982.								
			record.	T	empera	ture, ir	degre	ees Fa	hr.		Precip	itation.	in inch	es.	Num	ber of	day	rs.	tlon	
Stations.	Counties.	on, fee	Length of reco	Mean.	Departure from the normal.	Highest.	Date.	Lowest.		Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	(0.01 in. or more)		Partiy cionus.	Clouds.	Prevailing direction or wrud.	Observers.
Eastern Portion. Beautiort (near) 32 Bluckwine. Charleston.	Barnwell	21 296 48 144	52 49 62 51	55. 5 51. 8 55. 4 50. 6	-3.0 -5.7 -2.0 -3.0	83 77 82 81	22 3 22 20	25 21 28 18	11 10 10 10	52 42 31 45	3.35 2.73 2.62 3.61	-0.07 -0.77 -0.40 0.00	1. 10 1 56 1. 27 2. 12	T. 0.2 0 2.5	6 6 10 6	15	4 10 9	6 9	s. sw.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Wentlier Burean. Roland D. Powe. Perry C. Quattlebaum.
Conway Darlington Ethingham Ferguson‡‡	Implinator	25 175 106 63	44 38 42 47	53.8 *51.6	-2.7 -3.7 -3.2	85 85 83	22 22 † 3	21 *19	10	*51 42	2, 80 3, 29 2, 93	-0.29 -0.52 -0.58	1.55 2.37 1.52	1.5 T. T.	677	17	5	9	nw.	D. C. McCall. Wm. B. Gillespie, Henry C. Savuge.
Florence 1 Florence 2 Garnett Kingstree. Marion	ilampton	136 136 82 54 68	51 18 15 51 8	52.7 m51.8 54.6 54.2	-3.0 -7.0 -2.2	**86 **84 **1	† 4 † 3 21 † 4	21  23 20	10 11 15 10	38 m51 45 46	3. 10 2. 29	+0.22 +0.46 -0.94 -1.20	2.85 2.66 1.01 1.20 1.22	2.1 2.1 0 T. 1.2	4 7 9 4 6	18 19 23	10 9 7 1	5 7	sw. w. s. nw.	H. K. Gilbert. Pre bee Experiment Sta. Maner B. Robert. Mrs. Ellen Scott. Dr. Charles B. Whilden.
Mars Bhdf	Horence	92 30 264 54 97	9 1 18 86 19	52.6 55.9 51.4	-1.2 -5.1	82 82 77	22 †21 22	22 24 24	10 10 †10	43 43	2.56 1.76 1.86 1.56 2.99	-1.80 -2.07 -0.40	1.50 0.81 1.20 0.70 1.38	1.0 0 0 0 1.1	8 6 5 7		2 10 13	7	sw. sw. nw.	Rosa R. Davis. Myrtle Beach Invest. Co. U.S. Fisheries Station. Miss R. P. Rovenel. Julian H. Aycock.
Society Hill	Darlington Dorchester Sumter	192 75 169 249 24	42 35	*49.8 *52.9 53.5 53.8 55.8	-4.5 -5.1 -0.7 -0.4 -2.1	*84 *86 83 83 85	21 22 21 21 21 3	*19 22 21 21 21 22	†10 15 10 10 10	*45 *44 45 42 50	2.60 2.08 3.43 3.00 3.14	$\begin{array}{c} -0.84 \\ -1.28 \\ -0.02 \\ -0.47 \\ -0.38 \end{array}$	1. 90 0. 89 1. 72 1. 50 1. 69	3.0 1.0 3.0 T.	5 7 5 5	22 18 22 18 19	4 0 2 7 4	5 13 7 6 8	w. w. nw. w. nw.	E. D. Flelds, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	1			53, 2	-3.2	86	† 3	18	10	52	2.78	-0.71	2.85	0.8	6	18	6	7	w.	
Western Portion.										38	3, 82	0.10	2,06	1.0	6	23	2	6	nw.	Frank B. McCoy.
Aiken Anderson Blairs Cesars Hend# Culhonn Falls Camden	Fairfield	527 764 293 3118 508 222	28 9 34	55.1 50.4 39.7 52.6 50.0	-0.5 -3.4 -0.1 -4.2	83 82  74 83 83	1 1 1 1 21	18 16 5 15 20	10 10 10 10 10 †10	44 44 47 41	3, 57 4, 57 4, 41 3, 35 4, 94	-0.18 -1.11 +0.64 -1.51 +1.18	3.60 1.83 2.00	T. T. 0.5 0.3 3.5	8 5	21	2 6 5	9 11 5	w.	H. II. Russell. Sarah L. Owens. Cwsar's ilead—P. Mtn. Co I. M. Parker. Henry A. Brown.
Cutuwbu Chappells Cherokee (near) Clenson College Columbia	York Newberry Spartanburg	562 402 758 850	27 28 5 41	48.1 50.9 52.€	-1.6 -2.6	80 84 82	20 22 21	15 16 19	10 10 10	47 46 32	3.28 3.50 6.29 5.68 3.03	-1.00 -0.60 +0.74 -0.38	1. 95 3. 16 2. 10	1. 5 1. 4 T. T. 3. 5	7 7 4 6 9	19 14 13	7 3 8	5 14 10	nw. sw.	James C. Faris. William Spearman. Spartanburg Water Works Prof. F. H. H. Calhonn. U. S. Weather Bureau.
Crescent. Due West Edgefield Ellenton Gaston Showls 11.	Spartanburg Abbeville Edgefield Aiken Cheroken	630 711 550 76 680	6 19 20 1 30	50.0		79	· · · · · · · · · · · · · · · · · · ·	17	10	34	3.93 3.21 3.81 8.73 5.77 5.41	-1. 46 -0. 78 +0. 97 +0. 26	2.24	T. 1.0 0 T. T.	6 10 4 5 6 10	:::	5	11	w.	Duke Power Co. U. S. W. B. Aerological Sta Agent C. and W. C. Ry. A. A. Foreman. Southern Public Utilities. U. S. Weather Burean.
Greenwood Heath Springs Kershuw Landrum Laurens	Greenwood Lancaster Kershaw Spartanburg	671 568 500 1068	49 31 17 18	48.0 49.0 50 6 49.6 51.4	-4.7 -4.3 -3.4 -1.6	77 79 83 80 81	92 21 21 20 21	18 15 18 15 15	10	46	2.95 3.87 2.57 6.28	-1.34 +0.16 -1.42 +0.95 +0.20	2.27 2.08 2.55		5 4	12	0 3 8 9	1	W. W. HW. HW. SW.	M. M. Culbonu. J. Maryin Bowers. John W. Hamel. R. Hartwell Wilds, D.D.S. L.G. Roff.
Little Mountain. Newberry Pelzer Saludu Suntuck	Newberry	71 506 850	40 2 29 0 29 6 31	50. 6 51. 3 49. 9 48. 6	-4.4 -3.4 -5.3	82 80 81 82	21 20 21 21	15 16 19 16	10	47	2.52 3.60 3.03 4.29 4.74	-1.80	2.05 0.97 2.50	T.	5 7	18	4 5  6 5	6		Miss Alberta Sease. John H. Baxter. Joshna Y. Jones. B. B. Blease, E. W. Jeter.
Spartanhurg	Spartauburg Edgefield	106 106	0 40 1 33 5 39	50, 6	$ \begin{array}{c c} -2.8 \\ -2.6 \\ -3.6 \\ -2.6 \end{array} $	80	†20 1 † 1 21 21	17 17 13 16 14	10	45 49 48	5.63 8.32 3.98	+1.23 +2.2 -0.2	3 2.60 1 3.58	2. T. 2.	$\begin{bmatrix} 2 \\ 0 \end{bmatrix}$	19 18 8 8 18	8 5 5 15 11	8 8 2	nw nw.	U. S. Weather Bureau. Mrs. S. E. Long. II. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division menus and					1		† 1	5		4		1			1	7 17	6			

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc. † Also on other dates. † Received too late to be included in means and summaries. \*\* Temperature data are from observed readings of the dry allows means are computed from observed readings. If these folions are described with one of research as the description of the dry store of these students are as follows: Of Gastoria, Elackburg; of Windrop College, Rock Hill; of Ferguson, Eutawville; of Cesar's Head, Greenville; of Beaufort (near), Burton. T. Precipitation is less than 0.01 inch of rain or melted snow.

Daily Precipitation for March, 1932.

Stations	Draimage-	_													1	Day	of m	outh													GASIDS. "I 2 8 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 2													
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ccept as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of available. If Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the our period, midnight to midnight. \* Precipitation included in the next following measurement. Separate dates of falls not recorded. If Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR MARCH.

	Tr.	mperati	1110	Unanim	itation.	Averag	e uun	her of	86 5	1	,			1		1			l se t
		-III(be-tstri					days.		ling direc- n.		Te	emperati	ire.	Precip	itution.	Averag	e num days.	nerot	ing
er.	Mean.	Highest.	Lowest.	лунгаже.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevaili wind dir	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di
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Reference letters (\*, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

% Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W.B.O. Raleigh, 4-28-32-990

ol. XXXV.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist,

COLUMBIA, S. C., APRIL, 1932.

## GENERAL SUMMARY.

Precipitation averaged much below normal, and there was notable absence of severe local storms. The monthly mean

inperature was somewhat below the average.

nd corn planting began early in the month, but germination as retarded by dry weather as the month advanced. All grains headed during the month. There was much related by the month of the anting of truck, white potatoes, and gardens on account of arch freezes. Tohacco and sweet potato transplanting began rce fruits suffered no serious losses during the March freezes, althe 12th. ough considerable damage resulted in some up-State sections. owing made practically seasonable advance, notwithstanding

# PRESSURE.

The mean sea-level pressure, determined from reports of 9 gular Weather Bureau stations in and surrounding the Secon, was 29.99 inches. The highest pressure was 30.40 inches at ilmington, N. C., on the 4th, and in the Section proper, .39 inches at Charlesten on the 2d; the lowest pressure was .46 inches at Wilmington, N. C., on the 11th, and in the ction proper, 29.55 inches at Charleston on the same date.

# TEMPERATURE.

The monthly mean for the Section, determined from re-orts of 41 stations, was 62.1°, or 0.2° below normal. The ghest temperature was 92° at Blackville, Orangeburg, and emassee on the 24th. The warm periods were from the 2d the 8th and 22d to 26th, when the daily mean temperatures nged from 5° to 16° above normal. The lowest temperature as 28° at Caesar's Head on the 13th. Freezing temperatures ere recorded at Walhalla and Caesar's Head as late as the th. The cool periods were on the 1st, from the 12th to the th, and on the 27th and 28th, when the daily mean temratures ranged from 5° to 11° below normal.

The mean relative humidity, determined from reports of 9 zular Weather Bureau stations in and surrounding the Sec-n, was as follows: 8 a.m., 70%; noon, 45%; 8 p. m., 56%, e highest percentages occurred along the coast, and the vest, in the interior.

# PRECIPITATION.

The average for the Section, 54 stations reporting, was 5 inches, or 1.01 inches below normal. There were two riods of good showers, but the amounts were generally light.

in the low country. Rainfall was generally below normal, with 2 to somewhat over 4 inches in the higher elevations, except a small area of the north-central border counties, less than 1 inch in the southern counties, and less than one-half inch in sections of Dorchester, Berkeley, Charleston, Hampton, and Jasper Counties. The greatest local monthly amount was 4.23 inches at Due West; least local monthly amount, 0.23 inch at The greatest amount during any 24 hours was Summerville. 2.00 inches at Caesar's Head on the 30th. The average number of rainy days was 14% below normal. There was no snewfall. perature was somewhat below the average.

The growing season opened with vegetation somewhat 11th, 24th, 25th; Heath Springs, 24th; Landrum, 11th; 11th, 24th, 25th; Heath Springs, 24th; Landrum, 11th; ackward, due to unseasonably cold weather in March. Cotton Laurens, 11th, 25th, 26th; Marion, 18th; Newberry, 25th;

# WIND.

The prevailing wind was from the southwest and west. The uring the third week. The asparagus harvest began during average hourly velocity, determined from 9 anemometer ree first week, and English peas and strawberries were being cords, was 9.0 miles. The highest velocity for any 5-minute arketed by the 20th, when blackborries legan blooming. period was 34 miles per hour from the west at Greenville on

# SUNSHINE AND CLOUDINESS.

owing made practically seasonable advance, notwith standing latively dry soil conditions. The woods were generally made records, was 285.0 hours, or 73% of the possible amount. The average number of clear days was 16; partly amount. The average number of clear days was 16; partly amount. cloudy, 7, and cloudy, 7, as against normals of 15, 8, and 7 days, respectively.

# RIVER CONDITIONS.

The Santee River was in moderate flood at Rimini from the 13th to the 16th, and at Ferguson, on the 16th and 17th. The Pee Dee River was in flood at Mars Bluff on the 1st and 2d, and from the 14th to the 16th. Generally, the streams of the Section maintained fair stages, notwithstanding relatively light precipitation.

# MISCELLANEOUS PHENOMENA (dates).

Latest freezing temperatures. - Caesar's Head and Wall alla,

15; Winthrop College, 1.

Halos-Lunar: Columbia, 13, 19, 20; Due West, 16; Santuck, 13, 21; Spartanburg, 20. Solar: Charleston, 10, 16, 24, 26; Columbia. 7, 8, 16, 20, 28; Due West, 4, 7, 16, 17, 20, 23; Greenville, 4, 20; Santuck, 16; Spartanburg, 4, 28. Fog. dense.—Kershaw, 8; Mars Bluff, 7, 11; Yemassee, 18.

MISCELLANEOUS DATA FOR APRIL, 1932.

	sea.		perati		tio	ipita- 11. lies.	Win 4-cup A	d. nem.	re	Mean dati midi	re	e of pos-
Stations.	Barometer,	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage of
Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Due West, S. C Greenville, S. C Sayannah, Ga Wilmington, N. C Means and ex-) tremes.	30. 00 29. 98 30. 09 29. 99 29. 99 30. 02 29. 98 29. 99 30. 00	55. 3 65. 4 66. 2 60. 8 63. 6 60. 6 61. 3 67. 2 61. 8	80 89 88 85 87 85 84 89 85	33 42 48 88 41 36 40 48 41	8. 48 0. 74 0. 31 2. 05 1. 95 4. 23 2. 68 1. 31 0. 91	1.36 0.24 0.16 0.84 0.87 1.92 1.00 1.03 0.38	8.8 5.7 11.3 6.1 7.6 9.2 9.2 12.7 10.0	nw. nw. sw. sw. sw. sw. tie. w. sw.	70 72 69 67 66 70 67 74 72	42 37 52 46 38 46 50 46 50	54 45 69 51 48 54 62 66	65 75 84 78 74 67 70 64 78

LIEW 1

# Climatological Data for April, 1932.

					Clin	natol	ogica	l Da	ta fo	r Ar	oril, 1	932.								
			record,	1	empera	ature, i	n deg	rees F	ahr.		Precip	itation.	in inc	hes.	Nun	ber o	of da	ıys.	ction	
Stations.	Counties.	on, feet	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	(0.01 in or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Obscrvers.
Eastern Portion.																				
Beaufort (near)‡‡ Blackvine Charleston Cheraw	Beaufort Barnwell Charleston Chesterfield	21 296 48 144	52 49 62 51	67. 1 64. 8 66. 2 61. 5	+1.8 +0.3 +1.7 -0.1	90 92 88 87	† 5 24 6 † 6	40 40 48 35	1 1 1 1	39 39 28 44	0.58 0.53 0.31 2.75	$\begin{array}{c} -1.85 \\ -2.78 \\ -2.22 \\ -0.33 \end{array}$	0, 25 0, 31 0, 16 1, 22	0 0 0 0	4 5 6 7	18 15 10	10 12 10	2 3 10 	s. sw.	Mrs. R. L. Frlpp. Mrs. Mariella S. Matthews 11. S. Weather Bureau. Roland D. Powe.
Conway Darlington Eflugham Ferguson <sup>‡‡</sup>	Darlington Florence	25 175 106 63	44 88 42 47	63.0 62.2 6	-0.1 0.0 +1.1	90 87  90	25 6 24	36 35 36	†13 13 13	46 40  39	1.07 2.85 1.46 0.79	-2.00 -0.92 -1.86 -2.27	0. 47 0. 60 0. 67 0. 42	0 0 0 0	5 8 4 4	24 20 	0 1 	6 9 8	se.	Perry C. Quattlebaum. D. C. McCull. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Florencedo	136 136 82 54 68	51 18 15 51 8	63. 2 64. 6 63. 2	+0.3	90  89 89	23 + 7 23	42  37 36	13  †16 16	35  44 43	1.88 1.71 0.44 1.01 1.77	-1, 12 -1, 29 -3, 15 -1, 84	0.77 0.62 0.14 0.45 0.52	0 0 0 0	9 6 6 5 7	18 21 24 23	8 4  2 7	4 5  4 0	8W. W. W. S.	II. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Mrs. Ellen Scott. Dr. Charles B, Whilden.
Mars Bluff Myrtle Beach Orangeburg Pinopolis**†† Rimini	Florence	92 30 264 54 97	9 1 18 86 19	*62. 4 65.0 61. 0	+0.4 -1.1	*88 92 84	6 24 25	*35 40 40	16 † 1 † 2	*38	2. 06 0. 51 0. 61 1. 27 0. 85	-2.26 -1.76 -2.27	0.75 0.28 0.43 1.00 0.52	0 0 0 0	7 4 5 4 4	26 16 15	9 9	5 6	e. sw. sw.	Rosa R. Davis. Myrtle Beach Invest. Co. U.S. Fisherles Stution. Miss E. P. Ravenel. Julian H. Aycoek.
Society Hill	Sumter	192 75 169 249 24	12	*60.8 64.7 63.8 63.2 65.2	-1.0 +0.8 +1.1 +0.5 +1.0	*88 90 87 88 92	† 8 †23 †23 5 24	*36 87 38 39 39	13 †13 †13 18 †2	*43 45 46 43 45	2. 69 0. 23 1. 98 1. 76 1. 04	-0.78 -3.25 -1.14 -1.36 -1.88	0,70 0.13 1.18 0.76 0.63	0 0 0 0	3 5	19 17 22 20 19	4 5 3 7 6	7 8 5 8 5	w. sw. n. w. s.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extremes			63.8	+0.4	92	24	35	† 1	46	1.29	-1.80	1. 22	0	5	19	6	5	sw.	X .
Western Portion.																				
Alken Anderson Bluirs Casars Head‡‡ Calhonn Falls Canden	Anderson Fuirfield Greenville	527 764 293 3118 508 222	40 28 9 84	65. 6 61. 5 52. 0 63. 6 61. 2	+2.0 -0.2 +2.4 -1.3	89 86  81 90 89	† 6 6 6 6 23	37 36 28 35 36	1 1 13 1 † 1	41 89  40 43 41	0.80 2.65 2.27 3.48 2.08 1.55	-2.28 -0.78 -0.64 -1.38 -1.63	0. 31 1. 23 0. 63 2. 00 0. 80 0. 65	0 0 0 0 0	6 5 5	18 14  12 12 12	5 4 8	5 11 14 10	ne. w.	
Catawba Chappells. Cherokee (near) Clemson College Columbia	Spartanburg	562 402 758 850 351	28 5 41	60, 2 60, 4 63, 6	+0.3 +0.3	85 88 87	†28 6 24	34 34 41	1 28 13	41 48 38	3,34 2,03 1,51 3,13 1,95	+0.27 -1.07 -0.70 -0.94	0 59	0 0 0 0	9 5 6	22 12 13	 4 8 8	4 10 9	sw sw. sw.	James C. Faris. William Spearman. Spartanburg Water Works. Prof. F. H. H. Calhom. U. S. Weather Burean.
Crescent.  Due West. Edgefield Ellenton Gaston Shouls 11. Greenville.	Abbeville Edgefield Aiken	630 711 550 76 680 1039	19 20 1 30	60. 6		85	23	36	i i	33	3. 20 4. 23 8. 08 0. 70 1. 75 2. 68	+1.07 -0.34 -1.68 -1.04	0.26	000000000000000000000000000000000000000	10 8 4 7	8	10			Duke Power Co. U. S. W. B. Aerological Sta. Agent C. and W. C. Ry. A. A. Foreman. Southern Public Utilities. U. S. Weather Burcan.
Greenwood Heath Springs Kershaw Landram Laurens	Greenwood Lancaster Kershaw	671 568 500 1063 589	31 17 18	60, 0 60, 4 61, 4 60, 3 61, 6	-1.2 -0.2 -1.1 +0.4	86	7 24 † 6 28 23	85	1 1 1 28 1	42	2.83 3.93 3.10 3.82 2.81	-0.28 +0.62 -0.63 -0.73 -1.05	1,02	0000	8 8 10	18 17 12 17 15	0 2 1 9 13	17	W. е. W. е.	M. M. Calboun, J. Marvin Bowers, John W. Hamel, R. Hartwell Wilds, D.D.S, L. G. Roff.
Little Monntain Newberry Pelzer Sulndu Santuck	. Newberry	711 502 850 536 512	29 29 31	61.8 61.3 60.2 60.0	-1.1 -2.0		23 23  6 24	34	15	45 40	3. 19 2. 25 2. 73 1. 85 3. 34	-0.09 -1.00 -1.14 -1.28 +0.02	0.72 0.96 0.78 1.49		9 7 9	18	6	9	sw. w.	Miss Alberta Sease. John H. Baxter. Joshna V. Jones. B. B. Blease. E. W. Jeter.
Spartanburg Trenton Walhalla Whinsboro Winthrop College !!	Edgefield Oconee Fairlield York	620 1061 545 690	33 5 39 0 38	61.8	+0.7 0.0 +0.4	89 87 87	28 † 6 28 23 23 23	80 86 82	15 15 1	42 44 33 *44	2.71	$ \begin{array}{r} -1.78 \\ +0.01 \\ -0.48 \end{array} $	1. 12 1. 08 0. 92 0. 72		0 8	11 14 12 11	111	5 7 9	e. sw. w. n.	U. S. Weather Burcau. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division means and Section means and				60.9			24			1	2. 57		1	1		14	4		SW.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (e, b, c), appearing in the table indicate number of days missing; for example, by represents the basis and summaries. The representation of the complete rendings are computed from observed readings. Hostoffice addresses of these stations are stollows: Of casern Should, Black body within the complete control of Cesaris Head, Greenville; of Decardor theor), but the complete control of Cesaris Head, Greenville; of Decardor theor), but the control of Cesaris Head, or control the control of Cesaris Head, or control the control of the control of Cesaris Head, or control the control of the control of Cesaris Head, or control the control of the control of Cesaris Head, or control the control of the control of Cesaris Head, or control the control of t

# ERRATA.

Greenville, S. C.—December, 1918, maximum temperature, pages 91, 92 and 104, should be 69; October, 1918, minimum temperature, pages 76 and 105, should be 48; November, 1919, pages 84 and 105, should be 30; March, 1920, minimum temperature, page 20, should be 16.

Daily Precipitation for April, 1932.

															1	му	or m	onth	١.														
Stations.	Drainage- bastns.	1	2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	16	19	20	21	22	23	21	25	26	27	28	29	80	81	Tota
astern Portion. fort(near). ville	Const Edisto Const Pee Dee Which many	. 08								. 81	Ť.	T.	.01			T. 01 T. 7.		T.	T'.	.21	.11 T.		т. ::::		. 04 . 16 T.	 14 T.	T'. , 08 , 04 , 84						0.58 0.53 0.31 2.75 1.07
ngton	Pee Dee	. 17 . 09 . 38								. 67 . 42 . 77 . 62	i	.05	. 07 . 17 . 18 . 35			.11			.55	 .08			.01			.11							2.35 1.46 0.79 1.88 1.71 0.44
stree	BluckPee DeedoConstEdistoCooper	. 85								. 52 . 75 . 02 . 48	.01	.11 .03 	T.		.01 T.				.88	Tr.			.01				. 01		::::		i. 00		1. 01 1. 77 2. 06 0.51 0. 61 1. 27
nl       ty    i        nerville      er caflela assoo     'estern Portion,	Santee	. 25							. 45	T. 18	::::	.25	.22	::::	. 05				. 10	::::			Ť.										0,85 2,69 0,23 1,98 1,76 1,04
l	Edisto							::::	. 42	. 30	. 06	. 63	.21		. 04 T.									. 05	. 08	1. 28 . 42 . 74	. 63	::::			2.00		0.80 2.65 2.27 3.48 2.08 1.55
vbn     pells      okee (near) son College mbla *** ent	Cutawba Saluda Brond Sayaumh Congaree Enoree	. 0					.26		. 16 1. 18	. 45		. 41	.36			. 08						T.	T.	.16	. 09	. 20 . 59 1. 20 T.	34 . 41 3 . 41 3 . 30			T.	, 13		3. 34 2. 03 1. 51 3. 13 1. 95 3. 20
West*** field	Savannah Savannah Broad Sahida do Wateree	.21								1.46		. 62	1.00		1::::						: .::	. 03	. 09	.01	.20	.84	. 26 . 82 . 62 9 . 78				. 96		4. 23 3. 08 0. 70 1. 75 2. 68 2. 83 3. 93
iaw      rinu sus i Monutain evry r	Lynches Broad Sathda Suluda Sahida	.08							. 92 . 65 . 23 . 02	. 62	.21	.75 .58 .89 .72				Ť.			T.	т.		::::	.08	. 12	.08 T. .50	. 76 1. 11 . 45 . 50	. 21 . 78 . 18 . 29 . 96				08 T		3. 10 3. 82 2. 81 3. 19 2. 25 2. 73 1. 85
iek guburg *** ou alla shoro     trop College	Broad do Edisto Savannah Broad Catawba	T.								.88	i .05	. 10	. 25		Т.				. 03	Т.		.05	.04	.08	.01	T.	T. 3 . 45						8.24 1.51 1.90 2.94 2.99 2.71

Except as otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of servation. Ill Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\* Itemate Weather Bureau station; precipitation is faur the hour period, undulght to undulght. \* Trace, or less thouched in the next following neasurement. Tseparate dates of falls not recorded. T. Trace, or less than 0.31 lect.

COMPARATIVE DATA FOR APRIL.

	Ter	mperatu	re.	Precipi		Averag	e num days.	ber of	vailing ind direc- tion.		Te	mperatu	re.	Precipi	itution.	Averag	e nuul days.	ber of	iling direc- on
Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind c	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind tio
	62. 3 64. 6 62. 4 62. 8 63. 2 62. 8 66. 7 62. 6 66. 9 62. 2 58. 0 62. 4 56. 0 60. 4 56. 0 60. 4 60. 4 60. 4 60. 4 60. 4 60. 4 60. 8	94 95 93 92 93 94 95 95 95 95 97 88 97 88 97 98 95 96 95	28 31 30 31 26 26 28 30 28 30 28 26 27 27 24 26 21 25 28 20 31 30 31 32 32 32 32 33 34 30 30 31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	2. 09 1. 33 2. 01 2. 02 1. 66 1. 13 1. 30 2. 01 5. 55 1. 31 5. 55 5. 41 5. 05 3. 02 2. 18 4. 40 4. 75 2. 95 1. 71	5 4 4 6 6 6 10 4 4 9 8 7 7 7 9 8 6 9 9 4 10 9 7 5	15 15 12 14 16 16 12 12 15 15 14 14 15 20 0 10 11 11	10 10 9 11 6 7 9 9 9 6 9 9 8 8 8 6 13 10	55 59 58 77 99 96 77 47 97 5	SW. Hd. SW. SW. SW. SW. SW. SW. SW. SW. SW. SW	1911 1912 1914 1914 1915 1916 1917 1918 1929 1921 1922 1923 1924 1925 1925 1927 1927 1928 1929 1920	61. 6 64. 3 61. 2 63. 7 63. 1 64. 9 61. 0 62. 4 61. 5 61. 5 61. 6 65. 9 60. 3 63. 7 63. 7 63. 7 63. 7 63. 4 60. 2 62. 1	911 910 988 966 983 8896 996 992 922 944 911 91 91 94 95 89 92 92 92 94 94 95 85 89 99 99	300 322 300 255 244 288 322 244 266 277 33 318 244 255 269 299 288 328 299 28	2.95 4.24 2.06 1.47 1.79 3.34 5.82 2.10 5.13 2.43 5.11 3.45 5.90 2.12 2.43 1.58 6.40 4.30 2.16 3.24 2.05	8 9 6 7 4 4 5 7 11 1 1 5 10 6 6 6 6 9 8 5 10 6 6 7 10 6 7 7	12 14 20 14 20 18 20 11 11 20 13 16 14 15 15 18 18 18 16 16 16 16	954 1068 69568 775666 8558 657 8	9 11 6 6 4 4 4 10 0 5 11 6 6 6 8 8 10 6 6 6 8 7 7	ne. sw. w. w. w. sw. sw. sw. sw. sw. sw. s
†Other di	irections	also.																	

							Da	ily	Ter	npe	rati	ures	fo	r A	pril	, 19	932.	_														
Stations.	1	2	8	4	ô	6	7	8	9   1	10 1	1 1	2 1	8 1	4 1	5 1	6	17 1	8 1	9 2	0 2	1 2:	2 2	3 2	4 2	5 2	6 2	7 2	8 2	9 3	80	81	Mean
Eastern Portion.  Beaufort (near) Maximum Minimum.  Blackville Maximum Minimum.  Charleston Minimum.  Charleston Minimum.  Charleston Minimum.  Conway Maximum.  Minimum.  Conway Maximum.  Minimum.  Darlington \$\frac{\text{M}}{\text{M}}\$ Minimum.  Ferguson \$\frac{\text{M}}{\text{M}}\$ Minimum.  Florence 1 Minimum.  Garnett Minimum.  Kinestree Maximum.  Marion Minimum.  Myrtle Beach Minimum.  Myrtle Beach Minimum.  Orangelarg Minimum.  Society Hill \$\frac{\text{M}}{\text{M}}\$ Minimum.  Society Hill \$\frac{\text{M}}{\text{M}}\$ Minimum.  Sommerville \$\frac{\text{M}}{\text{M}}\$ Minimum.  Summerville \$\frac{\text{M}}{\text{M}}\$ Minimum.  Summerville \$\frac{\text{M}}{\text{M}}\$ Minimum.  Summerville \$\frac{\text{M}}{\text{M}}\$ Minimum.  Summerville \$\frac{\text{M}}{\text{M}}\$ Minimum.  Wedgefield   Maximum.  Minimum.  Venussee Minimum.	78 40 68 40 66 68 68 68 68 68 68 68 68 68 68 68 68	75 42 78 40 74 39 72 44 75 48	82 45 78 48 47 83 47 88 54 71 52	50 62 49 79 50 71 51 78 51 80 50 78 52 83	90 64 75 78 57 77 50 77 51 78 54 49 50 55 57 8 55 50 57 78 50 55 50 50 55 50 50 55 50 50	90 62 1 56 8 8 60 8 7 8 7 8 5 5 8 7 8 7 8 7 8 7 8 7 8 7 8	827 57 57 58 58 58 58 58 58 58 58 58 58 58 58 58	78 55 61 64 83 85 85 57 84 58 85 85 87 61 85 85 87 61 85 88 88 88 88 88 88 88 88 88 88 88 88	72 56 57 66 55 57 77 59 54 73 54 73 54 75 66 72 67 67 67 67 67 67 67 67 67 67 67 67 67	71 576 49 67 70 566 67 72 48 67 71 48 70 67 72 49 77 50 66 72 49 77 50 66 72 49 77 77 77 77 77 77 77 77 77 77 77 77 77	72 5 5 6 5 4 7 5 6 5 3 7 6 6 5 1 6 5 5 1 6 5 5 1 6 5 5 6 5 3 6 5 1	77 564 45 45 468 477 47 45 468 45 45 45 45 45	73 49 75 42 72 49 68 68 70 36 69 35 71 42 68 36 36 36 36 36 36 36 36 36 36 36 36 36	75 53 79 49 79 79 79 69 69 64 64 65 64 64 65 64 64 65 66 64 64 65 66 66 66 66 66 66 66 66 66 66 66 66	755 445 733 444 850 867 443 688 867 443 688 67 443 688 67 444 667 408 687 447 47	78 467 422 738 756 374 37 75 38 873 51 74 40 47 77 75 40 77 77 87 41 77 77 87 42 78 39 72 24 78 39		75 59 60 660 660 660 660 660 660 660 660 660	58 74 46 60	52 71 52 68 62 70 45 71 48 70 48	52 79 48 75 57	828575762224366 857938492241753 85684710825224855	865885858585858585858585858585858585858	88 62 292 61 867 859 84 863 863 865 867 861 961 883 663 961 883 663 864 661 876 884 661 876 68	83 65 64 64 64 65 65 65 65 65 65 65 65 65 65 65 65 65	88 65 59 90 58 80 66 84 59 86 66 84 62 88 84 59 96 68 84 69 68 84 69 68 86 65 84 66 68 66 66 66 66 66 66 66 66 66 66 66	81 622 566 759 574 574 556 56 72 568 575 568 575 575 568 575 575 575 575 575 575 575 575 575 57	78 449 75 446 538 76 36 76 36 48 77 48 76 76 76 76 76 76 76 76 76 76 76 76 76	80 572 62 80 762 80 80 80 80 80 80 80 80 81 81 81 81 81 81 81 81 81 81 81 81 81	84 50 83 45 81 58 51 86 53 75 64 80 53 76		79. 65. 65. 67. 68. 68. 67. 68. 68. 68. 68. 68. 68. 68. 68. 68. 68
Aiken   Maximum   Minimum   Maximum   Minimum	68 68 68 42 68	75 46 76 76 76 77 77 77 77 77 77 77 77 77 77	2. 56 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	78 52 83 54 78 53 88 49 77 53	811 410 638 849 638 445 665 665 665 665 665 665 665 665 665	76 52 80 53 85 56 82 50 84 55	844 588 744 54 81 50 82 25 50 64 50 71 50 81 50 64 50 64 50 81 50 64 65 65 66 66 66 66 66 66 66 66 66 66 66	68 52 71 47 71 40 68 47 70 45 63 48 67 50 69 48	65 49 62 53 67 66 68 62 65 65 65 65 65 65 65 65 65 65 65 65 65	59 58 61 51 66 51 65 62 68 68 68 68 68 68 68 68 68 68 68 68 68	42 65 42 64 42 66 88 65 31 65	72 50 9 89 89 65 28 34 9 89 68 41 70 68 88 66 89 88 66 87 1 37 1 37 1 37 1 37 1 37 1 37 1 37 1	80 416 466 466 466 47 52 65 44 466 44 466 44 466 47 66 466 47 66 47 66 47 66 47 66 47 66 48 46 48 48 48 48 48 48 48 48 48 48 48 48 48	427 45 45 65 39 722 38 67 39 67 39 69 36 69 38 69 38 69 38 69 38 69 38 69 36 69 36 69 36 69 36 69 36 69 36 69 36 69 69 69 69 69 69 69 69 69 69 69 69 69	73	810 560 576 580 576 576 577 577 577 577 577 577 577 577	79 52 46 471 54 45 5 68 471 54 45 5 68 471 56 46 471 56 46 471 56 46 471 56 471 56 471 571 571 571 571 571 571 571 571 571 5	78 444 77 43 42 42 42 43 42 43 44 45 44 45 47 44 45 47 47 48 47 48 47 48 47 48 47 48 47 48 47 48 48 48 48 48 48 48 48 48 48 48 48 48	74573 550643 752641 745 7527 7577 7577 7577 7577 7577 7577 7	83 4 8 4 9 4 4 7 9 6 4 4 7 9 7 4 6 1 8 4 7 9 7 4 7 4 7 4 7 4 7 8 4 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7	8953386666458 80480995588 8049935555 8598585448955848858584899 805848955855 8598585448955855 8598585485848955855	7774465592 5818685642 088765755 7185756410 68687676545655 848486856648 85858585 8585858585858585858585858585	852 866 859 850 848 857 754 858 85 85 85 85 85 85 85 85 85 85 85 85	62 83	79 56 80 55 79 55 79 56 79 56 77 57 58 81 58 77 58	828 54 56 54 56 54 56 56 56 57	_	78 48 69 49 81 46 80 75 44 77 45 88 48	50 50 50 50 50 50 50 50 50 50 50 50 50 5	6 5 7	79,1,3,44,45,46,46,46,46,46,46,46,46,46,46,46,46,46,

Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

% Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 5-26-32-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAUSE I THE ALLY OF THE

# CLIMATOLOGICAL DATA. 1932

SOUTH CAROLINA SECTION

RICHARD H. SULLIVAN, Meteorologist.

Vol. XXXV. COLUMBIA, S. C., MAY, 1932.

# GENERAL SUMMARY.

Precipitation averaged somewhat below normal, but was padly distributed as to areas and amounts. Temperatures anged below the average, with no marked extremes.

Relatively dry weather prevailed until about the 18th, then a series of good rains increased the soil moisture, and all rops responded accordingly. Cotton planting was completed enerally by the 15th, with good germination, on the whole, nd chopping was active to the northern limit by the close of ne month. Corn made similar progress. The cereal harvests egan about the middle of the month, and much stubble land as turned for corn, forage, and some cotton. Tobacco translanting and the asparagus, strawberry and English pea harests ended during the late decade. Sweet potato transplantng made rapid progress after the 18th, and white potato diging began along the coast. Commercial ensumber shipments egan toward June 1. Tree fruits and truck made practically

# PRESSURE.

The mean sea-level pressure, determined from reports of 9 gular Weather Bureau stations in and surrounding the Sechourly velocity, determined from 9 anemometer records, was 65 inches at Augusta, Ga., on the 10th, and in the Sec-northeast at Charleston on the 20th. on proper, 29.66 inches at Greenville on the same date.

# TEMPERATURE.

The monthly mean for the Section, determined from rerts of 42 stations, was 69.1°, or 1.7° below normal. The
thest temperature was 96° at Blackville and Camdon on
the Sth. The warm periods were negligible, except from the
to the 9th, inclusive. The lowest temperature was 41° at
to the 9th, inclusive. The lowest temperature was 41° at
to the 9th, inclusive. The lowest temperature was 41° at
the state of erokee (near) and Walhalla on the 3d and at Caesar's Head the 12th. The cool periods were from the 11th to 13th, h to 20th, about the 23d, and from the 29th to the 31st. lusive, when the daily mean temperatures ranged from  $5^\circ$ 16° below normal.

# HUMIDITY.

The mean relative humidity, determined from reports of 9 ular Weather Bureau stations in and surrounding the Secn, was as follows: 8 a.m., 77%; noon, 53%; 8 p.m., 63%, highest percentages occurred along the coast, and the est, in the north-central interior.

# PRECIPITATION.

The average for the Section, 55 stations reporting, was inches, or 0.28 inch below the normal. Rainfall occurred our periods, but was badly distributed. The bulk of the ath's precipitation occurred generally between the 18th and and excessive rains fell in sections of Charleston, Dor-

chester, and Berkeley Counties on the 20th and 21st. In a considerable area of the eoastal plain and in the northwestern border sections, the amounts ranged from 4 to over 8 inches, while in the major portion of the interior and along the lower coast the measurements ranged downward from 3 to less than 2 inches. The greatest local monthly amount was 8.48 inches at Summerville; least local monthly amount, 1.74 inches at Aiken. The greatest amount during any 24 hours was 4.42 inches at Charleston on the 20th and 21st. Dates of light hail: Bennettsville, 10th; Cheraw, 10th; Heath Springs, 10th; Landrum, 9th, 10th; Mullins, 9th; Rimini, 10th; Santuck, 10th; Society Hill, 11th. Moderate hail: In sections of York and Marlboro Counties, 10th.

Damage by Hailstorms and Wind Squalls. - Several series of severe thunderstorms, accompanied by heavy wind squalls and damaging hail, traversed sections of the central and northern counties on the 9th, portions of Cherokee, Spartanburg, and Richland Counties on the 10th, and central Spartanburg County on the 11th. Many wheat, oat, and rye fields, much young cotton and corn, and considerable young tree fruits suffered serious damage, and hailstones ranged in size from ordinary marbles to guinea eggs. The total damage from hail approximated \$185,000, and the wind damage was estimated at asonable advancement. The month closed with all fields Clarendon. Spartanburg, and Cherokee Counties, approximating \$203,500.

# WIND

on, was 30 05 inches. The highest pressure was 30.35 inches at 8.4 miles. The highest velocity for any 5-minute period was parlotte, N. C., on the 19th, and in the Section proper. 47 miles per hour from the northwest at Savannah, Ga., on 32 inches at Due West on the 30th; the lowest pressure was the 9th, and in the Section proper, 37 miles per hour from

# SUNSHINE AND CLOUDINESS.

# RIVER CONDITIONS.

On account of generally light rainfall, the flow averaged below normal in nearly all streams during the month.

# MISCELLANEOUS DATA FOR MAY, 1982.

Stations	г. жев	Tem degr	perat res l	ure, ahr.	tio	ipita- on, thes.	Win 4-cup 2		r	Men Plati midi	re	age of pos-
- Carlons.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	S a. m.	Noon.	S p. m.	Percentage sible suns
Asheville, N. C. Angnista, Ga. Charleston, S. C. Charlette, N. C. Columbia, S. C. Due West, S. C. Greenville, S. C. Savannah, Ga. Wilmington, N. C. Means and ex- tremes	30, 07 30, 03 30, 04 30, 06 30, 04 30, 08 30, 05 30, 05 30, 05	63, 2 72, 4 72, 6 68, 5 70, 6 68, 4 68, 0 73, 0 68, 8 69, 5	86 92 91 89 89 87 88 92 91	41 54 58 50 53 56 48 56 51	0. 84 2. 02 5. 64 3. 32 2. 42 1. 99 2. 02 1. 39 5. 14	0 26 0.86 4.42 1.15 1.09 0.64 0.74 0.78 2.72 4.42	7. 5 6. 5 10. 9 5. 5 7. 5 8. 5 8. 6 11. 5 8. 7	nw. ne. s. ne. ne. s. e. s.	76 75 78 71 77 78 74 80 81	45 46 63 49 45 55 54 59 62	61 51 76 56 55 55 72 76 68	65 76 77 80 80 72 73 63 70

MAY, 1932

Climatological	Data	for	May,	1932.
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					Clin	matolo	gica	1 Dat	ta fo	ı M	ау, 1	9 <b>32</b> .								
			record.	ı	empera	ture, it	degr	ees Fa	hr.		Precin	oitation	, in inc		Num	ber	of da	ys.	ection	
Stations.	Counties.	4	Length of recognition	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	(0.01 in. or more)	Clear.	Partiy cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Eastern Portion.  Beaufort (near) 13 Blackviiie Charleston. Chenuw  Conway Darlington Fergusant 1 Florence 2. Garnett. Kingstree. Marion. Mars Bluff. Myrtle Beach. Orange-lurg Pinopolis** Rindin. Society Hill. Summerville. Summer. Wedgo.ield Yennssee. Division menus and	Florence Orangelung Florencedo	19: 7 16 24 2	47 51 18 15 15 15 18 18 18 18 18 18 18 18 18 18 18 18 18	*72. 4 71. 3 72. 6 69. 8 70. 4 69. 6 70. 2 69. 0 71. 4 70. 9 *67. 2 *67. 2 *71. 1 70. 7 70. 7	+0.7 -2.4 -1.0 -0.1 -0.5 -0.5 -0.9	94 91 91 82 *95 *93 93 9 92 9 92	9 8 8 7 8 8 8 8 15 8 8 7 18 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	\$\begin{array}{c} \begin{array}{c} \begi	4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	*48 *38 *35 *34 *37	3.0	-1.5 +2.4 -2.4 +0.1 +5.0 +0.6 +1.6 -0.6	7 1.86 1.97 1.12 1.12 1.12 1.12 1.64 1.64 1.80 1.80 1.80 1.80 1.80 1.90 1.90 1.19	000000000000000000000000000000000000000	11 8 11 7 10 5 12	21 18 16 	8 11 8 14 10 10 10 6 6 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 8 8	4 8 8 10	n. s. e. se.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews II, S. Weather Bireau. Roland D. Towe. Perry C. Quatthehaum. D. C. McCall. Wm. B. Gillespie, Heury C. Savage. II, K. Gilhert. Poe bee Experiment Sta. Maner B. Robert. Mrs. Ellen ISout. Dr. Charles B. Whilden. Rosa R. Davis. Myrtie Baach Invest. Co. Myrtie Baach Invest. Co. Myrtie Baach Invest. Co. Julian II. Aveock. E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Waster Dept. W. Hampton Ramsey W. G. Illuson.
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in departuring section or dissistences. Reference betters (6, 9, 9), appearing in the table indicate number of days missing; for example, by represents two days missing, etc. Temperature and the properties of the propertie

Daily Precipitation for May, 1932.

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cept as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of reation. ||| Precipitation measured in the morning; amount their recorded is for the preceding 24 hours. \*\*\* Regular Westner Bureau station; precipitation is for the order bereight of highlight to "indight." \*Precipitation included in the next following measurement. Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR MAY.

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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

Modeling the interpretation of the morning of the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleight, 6-27-32-900

U. S. DEPARTMENT OF ACRICULTURE, WEATHER BUREAU, CHARLES F. MARVIN. Chief.

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

on. XXXV. COLUMBIA, S. C., JUNE, 1932.

# GENERAL SUMMARY.

Precipitation averaged much above normal, but was badly istributed as to areas and amounts. The average temperaare was close to the June normal.

While the rains were overabundant in some sections, the ith little or no accumulation of grass that could not be necked by timely cultivation. Cotton made good growth, and ropping was completed during the first half of the month; ne first bloom was observed near Orangeburg on the 8th, or days earlier than normal. Corn, tobacco, truck, early sweet otaroes, and lesser crops showed vigorous growth generally. eginning of threshing, the laying by of early corn, the benning of tobacco curing and the cantaloupe harvest, the end the commercial white potato harvest, and the general arketing of all kinds of truck. Native peaches, blackberries. nd roasting ears appeared on market during the last week, nd sweet potato transplanting was nearing completion. The onth closed with ample soil moisture and all crops in genally good condition.

# PRESSURE.

The mean sea-level pressure, determined from reports of 8 on, was 29,95 inches. The highest pressure was 30,26 inches at narlotte and Wilmington, N. C., on the 1st, and in the Secon proper, 30.25 inches at Columbia on the same date; the west pressure was 29.51 inches at Wilmington, N. C., on the h, and in the Section proper, 29.57 inches at Columbia on ie same date.

# TEMPERATURE.

The monthly mean for the Section, determined from re-orts of 42 stations, was 77.6°, or 6.2° above normal. The ighest temperature was 103° at Blackville on the 23d. The arm periods were on the 6th and 7th, about the 18th, and om the 22d to the 28th, when the daily mean temperatures nged from 5° to 10° above normal. The lowest temperature as 51° at Caesar's Head on the 1st and at Santuck on the 1st ad 2d. Short cool periods were noted on the 1st and 2d and pout the 13th and 15th, when the daily mean temperatures anged from 5° to 7° below normal in scattered sections.

# HUMIDITY.

The mean relative humidity, determined from reports of 8 gular Weather Bureau stations in and surrounding the Secon, was as follows: 8 a.m., 82%; noon, 60%; 8 p. m., 74%. ne highest percentages occurred along the coast, and the west, in the interior.

# PRECIPITATION.

The average for the Section, 54 stations reporting, was 30 inches, or 1.43 inches above normal. Showers were prelent in some part of the Section every day after the 2d. and e rainfall was very unevenly distributed. Measurements of

5 to over 13 inches were made in an extensive area of the low country and locally in some northwestern counties; in the middle-western and north-central counties the amounts were less than 4 inches. The greatest local monthly amount was 13.33 inches at Beaufort (near); least local monthly amount, 2.21 inches at Heath Springs. The greatest amount during any 24 hours was 4.85 inches at Yemassee on the 13-14th. The average number of rainy days was 20% above normal.

Killed by Lightning .- Afternoon, 30th, Messrs. John and Michael Cahill, white, and Nelson Brown, colored, at Gaston's Bluff, near Bluffton, while working in adjoining fields.

Damage by Lightning and Hail .- At Swansea, afternoon, stermittent showers were generally beneficial to all crops, 7th, residence fired by lightning and burned, with a loss of about \$1,000. On the 10th, about 4:15 p.m., heavy hail damaged crops about \$1,000 near Mullins; the hailstons were about the size of ordinary marbles.

Tornadoes.—A small tornado appeared near Calhonn Falls 9:10 p.m., 10th, and moved from the northwest toward the southeast in a path about 25 yards wide and about threehe 15th marked the end of the winter cercal harvests and the fourths mile long; the damage to out-buildings approximated \$500; there was no loss of life. At 6:15 p.m., 7th. a tornado dipped near Edgemoor in a path about 500 yards wide and one-half mile long, with damage to farm property appremimating \$3,500; there was no loss of life; the storm came from the west and moved toward the northeast.

# WIND.

The prevailing winds was from the southwest. The average hourly velocity, determined from 8 anemometer records, was 7.6 miles. The highest velocity for any 5-minute period was 58 miles per hour from the west at Savannah, Ga., on the gular Weather Bureau stations in and surrounding the Sec- 15th, and in the Section proper, 35 miles per hour from east at Charleston on the 18th.

# SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 8 automatic records, was 285.5 hours, or 66% of the possible amount. The average number of clear days was 10; partly cloudy, 11, and cloudy, 9, as against normals of 13, 10, and 7 days, respectively.

# RIVER CONDITIONS.

The Pee Dee River at Mars Bluff and the Santee River at Rimini were in flood from the 15th to the 18th, inclusive, at d the Savannah River at Ellenton, from the 14th to tho 25th. inclusive. Otherwise, moderate stages prevailed in the various streams of the Section.

MISCELLANEOUS	DATA	FOR JUNE	, 1932.

	sea	Temp	erati	ire, ahr.	Preci tio	n,	Win 4-eup A	d. nem.	re	dean lativ	re	e oi pos- isnine.
Stations.	Barometer, level.	Меап.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns
Asheville, N. C	29, 94 29, 94 29, 95 29, 95 29, 95 29, 94 29, 95 29, 96 29, 95	72. 1 80. 4 79. 0 77. 5 78. 7 76. 2 79. 2 76. 8 77. 5	90 100 95 95 97 95 99 94	51 64 66 60 61 62 62 58	2. 83 3. 71 6. 59 7. 01 5. 56 4. 96 9. 14 3. 85 5. 46	1. 08 0.58 2. 86 2. 92 2. 45 1. 55 1. 79 1. 58 2. 92	6. 1 5. 5 10. 8 4. 6 6. 6 7. 3 11. 0 9. 2 7. 6	nw, s. sw. sw. te. s. sw.	80 82 81 81 84 80 84 82 82	51 55 72 54 59 59 66 65	66 67 85 65 69 70 82 84 74	73 61 63 76 71 60 55 69 66

June, 1932

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Climatological	Data for	June,	1932.

					Cliz	natolo	gica	) Dat	ta fo	or Ju	ne, 19	932.								
			record.	Те	mpera	ture, in	degr	ees Fal	hr.		Precip	itation,			Num	ber	of da	ıys.	ection	
Stations.	Counties.	on, fee	Length of rec	Mean.	Departure from the normal.	Highest.	Pate.	Lowest.	Date.	Grentest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
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	Anderson Pairlield. Greenville. Kersinww. York Newberry Spartanburg Ocenee Richland Spartanburg Cocnee Richland Spartanburg Greenville Alken Cherokee Greenville Groenwood Lamenster Kerslaww Spartanhurg Laurens Nawberry Anderson Saluda Union Spartanburg	293 3118 508 222 562 402 758 850 351 630 550 60 1039 671 568 500 1043 550 1043 550 1043 550 1043 550 1043 550 1043 1044 1044 1044 1044 1044 1044 104	34 88 88 27 28 8 5 41 46 6 6 6 20 1 30 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	77. 7 76. 8 76. 6 74. 8 77. 6 77. 6	+0.1	95 95 94 98 95 98 100 100 99 99 7 99 7 94 98 99 7 95 98	1	58 58 54 51 56 69 52 57 55	† † †	27, 36, 34 34 34 34 32, 36, 36 36, 36, 36, 36, 36, 36, 36, 36, 36, 36,	4.69 6.72 6.72 6.72 6.72 6.74 6.74 6.74 6.74 6.74 6.74 6.74 6.74	+0.66 -0.4' +2.5i -3.00 -0.6i -0.0i +0.2' +1.0 -0.5i +4.5i +1.6 -0.3 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6	1. 61 1. 20 1. 20 2. 33 1. 15 1. 15 2. 28 2. 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 15 1. 10 1. 1	000000000000000000000000000000000000000	155 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	155 2 22 8 8 10 11 11 11 11 11 11 11 11 11 11 11 11	21 21 11 11 11 11 11 11 11 11 11 11 11 1	133 (6 10 1 15 1 16 1 16 1 16 1 16 1 16 1 16	s. s. sw. sw. sw. sw. sw. sw. sw. sw. sw	U.S. Weather Bureau. Duke Power Co. U.S. W. B. Aerological Sta. A. A. Foreman. Southern Public Utilities. U.S. Weather Bureau. M. M. Calhoun. J. Maryin Bowers. L. Hartwell Wilds, D.P.S. L. G. Roff. Miss Alberta Sease. John H. Baxter. Joddun V. Jones. B. W. Jeter. U.S. Weather Bureau. Mrs. S. E. Long. H. W. Jeter. J. W. College. H. W. Jenndt. J. H. W. Jenndt. J. H. W. Jenndt. J. Long. H. W. J. Long. J. H. W. Harndt. J. H. W. College. W. T. Clawson.

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. † Also on other dutes. †† Received too late to be included in means and summaries. "Temperature data are from observed readings of the dry buble; means are computed from observed readings of the dry buble; means are computed from observed readings. If Post-office addresses of these stations are as follows: Off daxton Shoaks, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Eutawyllie; of Cosar's Head, Greenville; of Beaufort (near), Burton. The Precipitation is less than 0.01 inch of rain or melted snow.

Daily Precipitation for June, 1932.

	Drainage-														1	ay o	f mo	nth.															
ations.	busins.	1	2	3	4	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	80	81	Tota
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11	Pee Dee				T.	.70	.36 1.31 .50 .15 T.		.10 .75 .12 .30	.30 .30 .02	. 14 . 21 . 45 . 08	.91 .54 .51 .88 .62	 19 T.	. 60 . 80 . 81 . 71 . 63 . 45	.80 .83 .90 .06 .16	.01	.27 .62 .06 .12 .29	. 67 T 79 . 24 T.	58	.61	.16	T.	. 07		Ť.		. 42 . 82 	.15 .44 .97 1.32 1.42 .08	. 10 2 90 T. 1. 80 T. . 06	. 09 . 05 . 19 	. 69 T.		2.67 7.87 7.36 6.27 4.94 6.83
illi ir. encla irg	Bluck Pee Deedo Const Edisto Cooper				T. 	.05 .14 .07 .11	.06		. 65 . 31 . 35 2. 00	 20 T. .10	. 20 . 85 . 40 . 15 . 31	.83 .20 .80 .72 2,47	.04	.78 .57 .55 .61	. 63 . 47 . 28 . 58 . 48	. 05 . 55 T. . 38	.67 .07 .90 .06	 27 104	1.28		2.01		. 10	. 48	.27	.14	.20 .77 .17 .87 .02	. 40 . 23 . 15 . 14 . 37	. 10 	T . 20	.05 .		7, 43 5, 87 5, 28 10, 95 8, 40 12, 25
	Suntee. Pee Dee. Ashley. Watereedo. Ashepoo.		• • • •		T	55	. 60		.16			1 59	. 63	. 62	2 60	• • • •	.22	. 15	• • • •	. 05	• • • •	••••	. 28			***	19	. 45		21.	1.88		6, 84 3, 55 9, 90 8, 63 6, 51 11, 52
lend Falls	Edisto					. 06		.08	. 25	.04	. 10 . 07 3, 20	1.09	. 82	1.61 1.20	.16	. 40	.48			1. 15	. 26	. 10			.09		.07	. 11	.14	.(5	. 18		8. 04 7. 02 3. 00 8. 35 7. 14 6. 76
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pt as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of attors. "" Regular Weather Burean station; precipitation is for the preceding 24 hours. "" Regular Weather Burean station; precipitation is for the period, individual to midnight to midnight. " Precipitation included in the next following measurement. Separate dates of falls not recorded. T. Trace, or less than 0.01 luch.

# COMPARATIVE DATA FOR JUNE.

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			Mean. Highest	Average. Average days with 0.01 inch or more.	Clear. Partly cloudy.	Prevaili wind di
90.9   103   56   22   79.3   3.3   3.5   76.5   99   53   5.5   76.5   96   53   7.7   77.0   105   41   3.3   78.2   106   41   3.3   78.2   106   41   3.3   78.2   106   48   3.5   76.2   97   55   4.4   79.4   105   48   3.5   76.2   97   52   7.7   77.7   105   48   4.5   77.7	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ww. 1918. ww. 1920. ww. 1920. ww. 1921. ww. 1922. ww. 1923. ww. 1924. ww. 1925. ww. 1926. ww. 1927. ww. 1928.	80.9 106 54 75.5 101 48 75.5 101 54 81.1 108 50 81.1 108 46 76.4 100 48 76.6 101 106 76.4 101 46 77.4 105 52 79.2 108 50 77.4 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 42 77.1 101 43 77.1 101 43 77.1 101 43 77.1 101 43 77.1 101 43 77.1 101 43 77.1 101 43 77.1 101 43 77.1 101 43 77.1 101 43 77.1 101 43 77.1 101 43 77.1 101 43	8. 42 8 5.68 9 9. 5.53 12 10 10 10 10 10 10 10 10 10 10 10 10 10	14 12 13 7 15 9 14 12 11 11 15 9 15 15 11 14 11 16 15 11 17 7 18 18 18 19 11 19 11 11 11 11 11 11 11 11 11 11	4 sw. 10 sw. 6 sw. 4 sw. 6 s. 7 sw. 4 sw. 6 ne. 10 e. 4 sw. 5 w. 5 w. 5 w. 8 sw. 12 w. 8 sw. 9 sw.

							Dai	ly T	em	pera	tur	es f	or J	une	, 1	932.	-												
Stations.	1	2	8	4	5	6 7	8	9	10	11	12	18	14	15	16	17   1	8 19	20	21	22	28 2	24 2	5 2	6 27	25	29	30	31	Mean
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Aiken Maximum Aiken Minimum Anderson Minimum Maximum Maximum Maximum Minimum Casar's Head Casar's Head Minimum Canden \$\frac{\partial}{\partial}\$ Maximum Minimum Canden \$\frac{\partial}{\partial}\$ Maximum Canden \$\frac{\partial}{\partial}\$ Maximum Cherokee (near) Maximum Cherokee (near) Minimu	X 5 7 5 9 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8	4598122239 452443332 809054663 5438787471 66449665858585858585858585858585858585858585	34 59 78 52 84 61 85 60 83 54 88	63 657 586 657 586 657 586 657 586 657 586 657 586 657 586 657 586 657 657 657 657 657 657 657 657 657 65	7000 7546 826 8758 688 688 688 688 688 688 688 688 688 6	661 941 655 66 655 9 955 9 9 652	614 644 97 98 68 98 98 68 98 98 68 98 98 98 98 98 98 98 98 98 98 98 98 98	92: 66: 88. 65: 66: 68: 66: 68: 66: 68: 68: 68: 68: 68	62 88 69 85	67.4666.757.26.865.55.21.42.28.864.666.68.65.865.865.865.865.866.865.864.865.865.865.865.865.865.865.865.865.865	9465×5559862866 78175554467765 855828847765 86661775526825 86455598681765 86582884765 86668176526825 864567468865	68 65 65 66 67 66 67 68 67 68 68 68 68 68 68 68 68 68 68 68 68 68	79 8 6 6 6 6 8 6 7 7 6 6 8 6 8 6 6 6 8 6 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6 6 8 6	084438686867	88 66 68 66 67 68 68 68 68 68 68 68 68 68 68 68 68 68	44 6 6 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6	90 61 90 91 91 92 94 94 95 97 97 97 97 97 97 97 97 97 97 97 97 97	89 66 92 67 91 69 87 88 86 86 86 86 86 86 86 86 86 86 86 86	72 67 69 1 1 1 1 2 6 7 6 9 6 9 2 6 7 6 9 9 2 6 7 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	60 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6	28 1 0 9 27 77 4 866 5 6 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9	1 74 1 171 1 2 2 65 65 6 7 7 6 7 6 6 6 7 7 7 6 7 6 6 6 7 7 7 7 7 6 7	71 877 979 979 979 979 979 979 979 979 979	877 700 871 871 813 866 872 867 871 886 872 886 872 886 887 887 887 887 887 887 887 887 887	90 70 71 92 71 90 72 90 72 90 72 90 73 90 74 90 75 90 75 90 75 90 90 90 90 90 90 90 90 90 90 90 90 90	78 91 72 91 71 96 72 90 72 90 72 91 73 96 98 96 98 96 97 97 97 97 97 97 97 97 97 97 97 97 97	91 71 92 69 91 70 71 91 72 92 70 86 89 91 86	71 72 93 71 69 69 98 78 92 71	85 82 82 82 82 82 82 82 82 82 82 82 82 82

Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

6 Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs. W BO, Raleigh, 7-25-32 -900

# U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU, CHARLES F. MARVIN, Chief.

# DATA WARARY OF THE CLIMATOLOGICAL

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Jr., XXXV. COLUMBIA, S. C., JULY, 1932.

No. 7

# GENERAL SUMMARY.

The Section average temperature was the highest of record Inly, several maximum temperature records were broken, d local mean temperatures at many stations were the highest record. Precipitation averaged much below normal.

Sustained heat, abundant sunshine and general absence concentrated showers were unfavorable for proper crop delopment. Much early corn, tobacco, and truck were badly ed, especially on the uplands, as the month progressed. tton, however, maintained fair to good condition generally, t later the crop began to shed in many sections, and blocm-g was checked; the first open boll was observed at Red ore, upper Calhoun County, on the 31st, or 3 days later an normal. Tobacco curing continued throughout the onth, small grain threshing was finished about the 15th, and e cantaloupe harveet closed about the 31st. The whole op situation changed for the better with the general showers out the close of the month.

## PRESSURE.

The mean sea-level pressure, determined from reports of 8 ular Weather Burean stations in and surrounding the Secn, was 29.96 inches. The highest pressure was 30.20 inches at arlotte, N. C., on the 12th, and in the Section proper, 30.19 thes at Columbia on the 13th; the lowest pressure was 29.55 oper, 29.60 inches at Greenville on the same date.

# TEMPERATURE.

The monthly mean for the Section, determined from rerts of 41 stations, was 82.6°, or 2.7° above normal, and highest July average of record. The highest temperature s 108° at Society Hill on the 22d, and maximum temperae records were broken at several stations. The warm period ended, with practically no interruption, from the 5th to 29th, inclusive, when the daily mean temperatures ranged m 5° to 13° above normal. The lowest temperature was 49° re negligible.

# HUMIDITY.

The mean relative lumnidity, determined from reports of 8 ular Weather Bnreau stations in and surrounding the Scc-1, was as follows: 8 a.m., 77%; noon, 52%; 8 p.m., 66%. highest percentages occurred along the coast, and the est, in the northern interior.

# PRECIPITATION.

The average for the Section, 53 stations reporting, was 4 inches, or 2.07 inches below normal. Precipitation ocred in three periods, but the amounts were generally light il about the 25th. Distribution was very poor, there being rly 10 inches in sections of Florence County, less than two nes in Aiken, Barnwell, Beaufort, Clarendon, Newberry, rtanburg, and Oconee Counties, and less than one-half inch in central Orangeburg County. The irrest local monthly amount was 9.76 inches at Florence No. 1; least local monthly amount, 0.33 inch at Orangeburg. The greatest amount during any 24 hours was 4.18 inches at Florence No. 1 on the 28-29th. The average number of rainy days with 25 % below normal. Light hail occurred at Greenville on the 70th and at Myrtle Beach on the 8th. Moderate hail occurred near Anderson on the 31st

Damage by Hail, Wind, and Lightning .- A violent thunderstorm, with heavy winds, driving rain, and some hail, visited the vicinity of Blackville at 6:30 p.m., on the 15th, moving in a short path about one mile wide from northwest to southeast. The hailstones were about the size of marbles. business houses in the heart of the city were unroofed or damaged, with much loss from heavy rains to stocks in stores. The total loss to property and crops approximated \$20,000, of which about \$10,000 has been estimated as due to wind. Incident to heavy to excessive rains in western Anderson County on July 31-August 1, Mr. Herman Holcomb, white, of Anderson, and Henry Mack and wife, colored, also of Anderson, were drowned in washouts, the former on Highway No. 29, and the latter, at Taylor's Creek; all were in automobiles. Growing crops, mostly cotton and corn, were damaged alout \$3,000 near Travelers Rest on July 30. Waycross School, at Fountain Inn, was struck by lightning and burned on July 20, with a loss of about \$2,500.

The prevailing wind was from the southwest. The average hourly velocity, determined from 8 anemometer records, was 7.6 miles. The highest velocity for any 5-minute period was 41 miles per hour from the southwest at Savannah, Ga., on the shes at Charlotte, N. C., on the 1st, and in the Section 3d, and in the Section proper, 40 miles per hour from the south at Charleston on the 25th.

# SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 8 automatic records, was 332.9 hours, or 76% of the possible amount. The average number of clear days was 17; partly eloudy, 10, and cloudy, 4, as against normals of 13, 11, and 7 days, respectively.

# RIVER CONDITIONS.

On account of general scarcity of concentrated rains, the Caesar's Head and Walhalla on the 3d. The cool periods rivers of the Section averaged considerably below normal, with few exceptions.

# MISCELLANEOUS DATA FOR JULY, 1932.

	. sea	Tem	perati ees F	are,	tio	pita- n, hes.	Win 4-eup A		re	lear lati nidi	re	e of pos-
Stations.	Barometer,	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns
Asheville, N. C Augusta, (la. Charleston, S. C Charlotte, N. C Columbin, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex- tremes	29. 98 29. 95 29. 96 29. 95 29. 95 29. 95 29. 98 29. 95 29. 95	76, 5 84, 8 83, 8 81, 6 83, 6 81, 8 84, 2 81, 6	97 104 101 100 102 100 100 96	50 65 70 58 63 60 69 63	2. 74 2. 27 4. 03 3. 73 3. 39 3. 18 2. 58 4. 28 3. 28	0. 85 1.24 2. 62 0. 95 1. 86 1. 19 0. 67 1. 58 2. 62	5. 8 5. 8 10. 1 4. 8 7. 1 7. 9 10. 7 8. 8	nw. nw. sw. sw. sw. sw.	82 77 77 72 77 74 79 79	48 47 61 49 49 51 57 58	65 58 77 58 57 60 72 78 66	72 78 80 81 76 71 68 80 76

### Climatological Data for July, 1932.

	Climatological Data for July, 1932.																			
			record.	T	empera	ture, i	n degr	ees Fa	hr.		Precip	itation,	in incl	nes.	Num	ber c	of da	ys.	direction and.	
Stations.	Counties.	Elevation, feet.	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Dute.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing direction	Observers.
Eastern Portion,						1														
Beaufort (near)*** Bluckviile Charleston	Beaufort Barnwell Charleston Chesterfield	21 296 48 144	52 49 62 51	84. 4 85. 0 83. 8 83. 4	+3.0 +3.8 +2.4 +3.5	104 107 101 107	†15 22 22 22 22	68 63 68 60	18 3 25 3	32 38 23 39	1.30 2.82 4.03 4.84	$ \begin{array}{r} -4.91 \\ -2.78 \\ -2.86 \\ -1.18 \end{array} $	0.65 1.27 2.62 1.90	0 0 0 0	4 9 7 6	18 13 10 21	12 18 16 2	1 0 5 8	s. sw.	Mrs. R. L. Frlpp. Mrs. Marlelia S. Matthews U. S. Wenther Burena. Roland D. Powe.
Conway Darlington Ellingham Fergusoni‡	llorry Darlington Florence Orangeburg	25 175 106 63	44 88 42 47	82.5 83.6 83.8	+2.6 +3.7 +4.2	101 105	†15 22 †21	58 57 59	3	37 40 34	4 31 5.14 6.14 1.37	$     \begin{array}{r}       -2.30 \\       -0.37 \\       +0.03 \\       -5.51     \end{array} $	1.11 2.27 3.00 0.53	0 0 0 0	9 6 8 8	25 14  23	0 10 	6 7	sw.	Ferry C. Quattlebann. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence I Florence 2. Garnett Kingstree. Marion	Florencedo	136 136 82 54 68	18 15 51	82.2 *84.5 84.2 183.0	+0.9 +3.4 +3.8	*106 107 103	15 14 22 15	62 *63 57 160	10 3 3 13	37 -40 40 141	9.76 8.14 5.16 4.65 4.50	+3.92 +2.30 -2.08 -1.87	4.18 2.58 1.46 1.90 1.50	0 0 0 0	12	17 12 13 28 22	14 7 17 3 9	0 3 1 5 0	sw. w. sw. s.	11. K. Gilbert. Pee Dee Experlment Sta. Maner B. Robert. Mrs. Ellen Scott. Dr. Charles B, Whilden.
Mars Bluff	Florence	92 30 264 54 97	1 18 86	*80. 2 83. 8	+3.6	*96 102	†21	*57 61	4 3	*37 33	5.81 5.08 0.33	-6.31 -4.77	2.10 2.02 0.14 0.91	0 0 0 		24 14	5 13	2 4	s. sw.	Rosa R. Davis. Myrtle Beach Invest. Co. U.S. Fisheries Mation. Miss E. P. Ravenel. Julian H. Aycock.
Society Hill	Durlington	192 75 169 249 24	85 11 42	83.2 83.7 82.5 82.6 83.8	+3.6 +3.8 +2.8 +3.2 +3.2	108 102 102 103 104	22 22 15 15 22	55 62 57 65 63	3 3 3 29 † 3		5.89 4.27 3.62 4.17 3.41	-0.50 -2.75 -1.47 -0.91 -3.84	1.80 2.99 1.60 1.55 1.67	0 0 0 0	8 8	21 19 18 25 21	7 4 11 6 3	3 8 2 0 7	w. s. sw. w. sw.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extremes			83.3	+3.1	108	22	55	3		4.41	-2.01	4.18	0	7	19	9	3	sw.	
Western Portion.			1	4							-				1					
Alken Anderson Bluirs Cæsurs Hend‡‡ Calhoun Falls Cunden	Fairfield	293 3118 506	40 3 28 3 9 3 34	84. 0 82. 3 69. 8 84. 4 83. 6		103 102 93 104 104	15 †21  14 23 21	62 58  49 65 63	5 3 3 8 9	29 31	4.68 2.41 2.39 4.17 2.71 3.57	-0.39 -2.78 -2.84 -2.53 -1.80	0.66 0.66 1.08 0.80		10 6 7	24 24  6 9	7 1 17 20	0 6  8 2	e. w. w.	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Cresar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catawba Chappelis. Cherokee (near). Clemson College Columbia	Vork Newberry Spartanburg	. 56: 40: 75: 85:	2 28 8 5 0 41	79.6 80.8 83.6	+2,6	100 100 102	21 22 22 22	51 58 63	3 9 3	38	3.59 1.77 1.87 3.08 3.39	-2,22 -3,45 -2,08 -1,96	1.01 0.62 1.35		9 4		2 1 18	5	SW.	James C. Faris. William Spearman. Spartanburg Water Works. Prof. F. 11. H. Calhonn. U. S. Weather Burean.
Crescent. Edgefield Ellenton Gaston Shoais 11 Greenville.	. Edgefield	68	$\begin{bmatrix} 0 & 20 \\ 6 & 1 \\ 0 & 30 \end{bmatrix}$	81.8	:	100	21	60		:	1.86 2.26 1.96 3.81 3.18	-3.77 -0.84 -2.18	1.08		0 6		16	4	sw	Duke Power Co. U. S. W. B. Aerological Sta A. A. Foreman. Southern Public Utilities. U. S. Weather Bureau.
Greenwood Heath Springs Kershaw Landrum Laurens	Kersinw	. 56 . 50	8 31 0 17 3 18	81.6 82.0 83.8 81.6 <sup>d</sup> 83.4	+2.9 +4.4	100 101 106 100 4106	†16 †14 †20 †14 21	63 53 55 58 454	2	37 3 42 3 34	2. 44 4. 77 4. 89 3. 62 2. 47	- 3, 22	1.54 1.98 1.82		0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 4 22	9 18 6 9	13 14 3 0	W. W. W.	M. M. Calbonu, J. Marvin Bowers, Join W. Hamel, R. Hartwell Wilds, D.D.S, L. G. Roff.
Little Mountain Newberry Peizer Saluda Suntnek	Newberry Newberry Anderson	. 71 . 50 . 85	2   29 6   29 6   31	82.9 f84.4	+2.9 +3.7	106 105 m104	15 15 12 22	· · · · · · · · · · · · · · · · · · ·		1 134	6. 18 2. 52 2. 45 4. 14 4. 09	-2. 19 -2. 90 -0. 90	9 1.65 0 0.78 3 1.28		0 8	3 :::	18	3 5	W.	D. Wilder
Spartanburg Treuton Walhaffa Whuisboro Winthrop Callege ‡‡	Spartauburg	. 82 62 106 54	0 40 1 33 15 39	81.7 79.8 83.8	+1.6 +2.6 +4.6	105	21 22 †21 †21 †21 22	57		3 32 3 35 3 39 3 35 3 36	5.58 1.71 4.48	$\begin{vmatrix} -2.2 \\ -4.2 \\ -0.6 \end{vmatrix}$	1 1 70 5 0.6 9 1.5	5		5 16 9 24 0 11	1	2 4 8 5	3 SW. 3 SW. 2 SW. 1 S.	Mrs. S. E. Long. II. W. Brandt.
Division means and Section means and	extremes				+2.	106				3 45		1		4		8 18			5 W.	-

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, b, \*, 0), appearing in the table indicate number of days missing: for example, by represents two days missing, etc. † Also on other dates, †† Received too late to be included in means and summaries. \*\* Temperature data are from observed readings of the dry bubble; means are computed from observed readings. If Proceedings and the date of the dry bubble; of the dry bubble; of the dry bubble; of Greenville; of Received

# ERRATA.

South Carolina Annual Temperature.—1931 and previous years: 1893, 63.0 should be 62.9, and 1895, 61.9 should be 61.8.

Daily Precipitation for July, 1932.

	Drainnge-															Ďау	of m	outi	١,														
Stations.	basins.	1	2	3	4	5	6	7	8	9	10	11	12	18	14	18	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	81	Tota
Castern Portion. fort(near). kville	Coast	.80	. 01		T.		T . 51	Ť.	T. T.										. 21			. 04	. 06		T.		T.		1. 90		1.68	T.	1.80 2.82 4.03 4.84 4.81
Ington	Pee Dee								• • • •											. 63			. 31			т. Т.	. 62		2 27	. 40 8. 00 . 53 4. 18 2. 45	. 67 . 67 . 87	. 55 . 41 .20 .60	5. 14 6.14 1.87 9. 76 8. 14 5. 16
stree (1) on Bluff le Beach geburg notis	Huck		.02			::::		.05	.08	.47								T.	.80	. 16 T.	::::		 15 T.		т . 45	2 02			1.50 2.10 .44	. 03	. 54	. 05 . 27 . 88 . 03 . 04	4.65 4.50 5.81 5.08 0.33
ul      ly            uerville      er reliela 	Santee Pee Dee. Ashley Wateree do	. 08 . 07 . 22 . 95	1. 67			. 05			. 40		::::					1.55	 .37 .40 .02		Ť.	.98		.65				.12	2. 99				. 13	.18 .45 .65 .42 .22 .14	2.53 5.89 4.27 3.62 4.17 8.41
t rson s## rs Hend bus Falls## len## vbn##	Wateree				.80	.30	. 10		 .ii			::::				.70	.02		T.					. 49				19	T. 1	1.08	. 37	.66 .66 .66 .32	4. 68 2. 41 2. 39 4. 17 2. 71 8. 57
okee (near) son College mbla *** ent.	Cainwha	····		::::	. 62	.11	.84	.01 T	.01							.03	.52	 jr.	т.						T.	Ť	т.		1, 81	. 88	1.35		3.59 1.77 1.87 3.08 3.39 1.86
leld      ton n Shonis     ville   wood      a Springs.	Savannah Savannah Broad do Wateree	Ť.	• • • •	::::	i. 15	.90 .01 .20 .41	.50 T.	.03									. 25	. 27							T.	т.	.12	.05	. 15 . . 28 . 02 . 64 . 67 1	.80	. 56	. 34	2.26 1.96 3.81 8.18 2.44 4.77
aw #   run us Monutain orry 	Lynches Brond Suhida Suhida Suhida Suhidado	. 04			.07	. 29 . 10 . 08 . 36	.08	. 18	.45			::::				T. .27		1.32	45 T.	. 16			.43			. 25		.83	• • • • •	.11 .18 .59 .02	.30	 .77 .05 .65	4.89 3.62 2.47 6.18 2.52 2.45 4.14
ck tuburg *** on tiburg *** on tibu tibu sboro      trop College	Edislo			••••	. 65		. 13 .	.08								. 12	. 05		. 10	.05		.05	.03			Т	.80		.24 .60 .35 .05 .42 .09 1	. 14		T.	4. 09 1. 55 3. 58 1. 71 4. 48 5. 52

xcept as otherwise indicated, observations are generally made late in the afternoon, near smost, and precipitation recorded is for the 24 hours ending at the time of ervation. ||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the nour beford, midnight to midnight. \* Precipitation included in the next following measurement. Isoparate dates of falls not recorded. T. Trace, or less than 0.01 luch.

COMPARATIVE DATA FOR JULY.

Ŀ	Te	mperatr	ıre.	Precip	itation.	Average number of days.			a lling d direc- tion.		Te	mperntr	ıre.	Precip	itation.	Avern	ge nuna days.	ber of	ling direc-
ear.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Preval wind	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind d
	82. 0 78. 9 79. 5 78. 4 77. 9 82. 0 77. 7 80. 2 80. 0 80. 0 81. 2 80. 8 80. 4 79. 4 80. 4 79. 4 81. 4 79. 8 79. 4	110 108 102 104 98 102 104 100 102 105 107 105 107 103 105 107 103 105 107 100 100 101 100 101 100 101 100 101 100 101 100	60 53 51 52 56 51 60 55 54 54 54 54 55 62 58 45 60 60 60 60 60 60 60 60 60 60 60 60 60	7. 49 3. 68 7. 13 6. 88 5. 95 7. 44 4. 17 5. 01 4. 03 4. 03 4. 03 4. 52 3. 79 5. 96 6. 16 6. 16 5. 06 5. 49 5. 83	14 8 13 12	13 8 10 10 10 12 14 12 15 18 13 13 15 13 13 12 13 13 19	14 12 15 13 12 10 11 11 12 11 19 12 10 17 13 13 13 12 15 11 11 11 12 11 11 11 12 11 11 11 12 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	4 11 6 8 6 11 8 6 7 5 4 6 8 9 9 5 6 6 7	SW. SW. SW. SW. SW. SW. SW. SW. SW. SW.	1911 1912 1913 1914 1915 1916 1917 1918 1919 1923 1924 1925 1925 1926 1927 1928 1929 1920	79. 8 79. 6 81. 9 80. 0 80. 9 77. 8 79. 9 77. 5 79. 6 79. 0 78. 6 79. 0 78. 5 79. 8 81. 5 81. 5 78. 3 79. 8 81. 5 81. 5 82. 6 79. 9	162 102 109 107 106 99 102 103 102 101 104 108 106 108 108 107 108	53 58 56 53 55 60 52 50 51 53 60 58 57 56 64 55 56 49 52 58	3.79 5.22 4.78 5.16 3.269 6.56 5.02 8.86 5.60 7.44 7.20 4.50 3.19 6.38 6.38 4.80 5.35 5.35 7.45 5.35 5.35 5.35 5.35 6.38	10 11 9 8 17 12 11 13 11 14 13 19 12 6 10 13 11 10 9 9 8	12 14 15 14 18 5 14 15 13 9 12 15 14 15 14 15 14 15 17	10	6 77 7 4 3 14 8 7 10 8 9 6 8 8 8 8 5 7 7 8 8 8 7 8 8 7 8 8 8 8 8 8	SW. SW. SW. SW. SW. SW. SW. SW. SW. SW.

							Dai	ly !	rem	per	atu	res	for	r Ju	ly,	198	32.											_				
Stations.	1	2	3	4	5 6	1	8	9	10	11	1 15	2 13	3 1	4 18	16	17	18	8 1	9 2	21	22	28	24	25	2	6 2	2	8 29	9 30	31	M	lean
Rastera Portion.  Beaufort (near)   Maximum   Minimum   Maximum   Minimum	91 71 88 71 74 77 91 75 90 91 72 90 92 71 91 72 92 92 92 93 94 94 95 96 96 96 96 96 96 97 97 97 97 97 97 97 97 97 97 97 97 97	89 692 72 91 75 87 75 87 73 91 71 91 73 92 73 93 74 91 74 91 71 92 73 74 94 74 95 74 96 74 97 86 74 97 86 86 86 86 86 86 86 86 86 86 86 86 86	88 61 91 55 92	74 98 73 94	75 96 76	96 97 97 97 97 97 97 97 97 97 97	75 98 17 96 97 97 97 97 97 97 97 97 97 97 97 97 97	75 08 74 91 97 97 77 97 97 97 97 97 97 97 97 97 97	74 97 97 98 88 88 77 96 96 97 94 96 96 97 94 97 97 97 97 97 97 97 97 97 97 97 97 97	70 1 1 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	69 93 76 01 69 98 66 101 70 99 70 99 66	72 72 75 75 78 95 75 75 77 95 74 95 74 95 74 95 74 95 74 95 74 95 75 76 77 95 77 95 77 95 77 95 77 95 77 95 77 95 77 95 77 95 77 95 77 95 77 95 77 95 77 95 77 95 97 97 97 97 97 97 97 97 97 97	75 02 72 72 87 77 99 63 99 64 100 60 98 65 99 76 99 60 87 64	766 1072 94 76 77 78 99 1002 77 1002 77 1002 77 1003 77 101 77 101 77 101 77 100 77 100 77 100 77 100 77	05 71 00 04 73 01 73 03 74 102 74 104 73 105 105 103 73 91 74	95 69 96 77 99 72 101 72 99 78 99 99 99 88 90 74 97	974 978 978 979 979 979 979 979 979 979 979	97 68 96 97 97 97 97 97 97 97 97 97 97 97 97 97	69 89 74 98 1 98 1 99 69 97 69 98 66 94 67 97 67 70 86 71	02 1 69 90 77 103 1 78 17 1001 1 72 1002 1 1000 1 1	74 1 1 95 1 95 1 97 1 97 1 97 1 97 1 97 1	077 1 777 1 778 1 779 1	06 1 799 82 808 74 100 74 102 1 100 74 100 75 100 76 100 77 77 77 77 77 77 77 77 77 77 77 77 7	76 1 1 7 9 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7	00 75 87 4 99 1 88 74 99 1 88 74 99 1 88 74 99 74 88 74 99 74 88 74 99 74 88 74 99 74 88 74 99 74 98 74 99 75 76 76 77 98 77 98 77 98 77 98 77 98 77 98 77 98 77 98 77 98 77 98 77 98 77 98 78 78 78 78 78 78 78 78 78 78 78 78 78	953357957959979969771496929676868 9722889719970171570	9375 947 9797 9797 9797 9797 9797 9797 979	90 75 90 75 87 77 89 90 91 76 90 90 91 76 91 76 92 77 74 91 74	90 74 91 72 89 74 93 70 94 69 96 98 98 72 92 71 69 92 72 92 73 92 74 74 75 76 96 96 97 77 97 97 97 97 97 97 97 97 97 97 97	91 70 869 888 73 689 687 968 866 958 688 688 688 688 688 688 688 6	8611921184 27 869 872 869 872 869 872 90 727 867 876 888 869 470	95.0 95.2 97.8 8 97.9 97.2 97.0 91.7 72.0 95.7 77.2 95.5 7 94.5 94.5 94.5 94.5 94.5 94.5 94.5 97.2 7 97.2 97.2
Aiken   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum	8:00	6766766 77 80 60 87767 8776 8778 60 9796 8778 9786 9778 60 9778 60 9778 60 9778 60 9778 60 9778 60 9778 60 978 60	65.55.7 198.8 792.6 6 87.7 198.8 79.9 6 87.7 198.8 79.2 6 87.7 198.8 79.2 6 87.7 198.8 79.2 6 87.7 198.8 79.2 6 87.7 198.8 79.5 6 87.7 198.8 79.9 198.8 79.9 198.8 198	74 87 74 87 75 87 87 87 87 87 87 87 87 87 87 87 87 87	70 62 85 85 70 96 87 72 85 86 87 70 97 72 85 86 87 70 97 72 85 87 70 97 72 87 70 97 72 87 70 97 72 87 70 97	70 92 74 89 70 90 72 90 70 90 70 92 73 89 72 87 70 85 86 99	94 71 91 70 89 70 86 68 90 66 94	70 92 63 99 71 94	9459366868686868686868686868686868686868686	92966695949868 928669766996669100667697664	69 68 68 70 95	74 91 75 95 97 91 66 97 76	100 100 101 74 102 65 96 71 99 100 70	75 93 94 98 97 97 102 70 97 68 99 80 96 67 11 101 73 105 73 102 74 97 97 97 97 97 97 97 97 97 97 97 97 97	78 105 72 104 72 99 75 100 76 99 102 76	102 70 100 69 99 71 98 74 108 67 99 69 99 71 98 65 101 71	97	73 96 69 97 71 97 95 62 98 67 96 74	94 69 68 99 68 99 77 70 100 70 98 88 101 1100 68 99 97 75 65 97 65 97 97 97 97 97 97 97 97 97 97 97 97 97	755 101 72 88 865 108 74 102 71 99 67 69 99 74 96 100 72 100 102 72 108 107 100 68 102 72 108 107 100 68 107 100 68 107 100 68 107 100 68 100 100 100 100 100 100 100 100 100 10	75 102 73 88 66 102 74	105	78 100 72 84 100 75 85 74 100 75 88 75 104 72 108 75 102 74 100 75 88 75 100 75 88 75 100 75 102 74 100 75 103 70 97 103 105 70 97 108 109 109 109 109 109 109 109 109 109 109	100 98 72 98 66 66 68 72 95 66 66 70 97 77 95 97 77 98 77 98 77 98 77 98 77 98 77 98 77 98 77 98 77 98 77 98 77 98 77 98 77 98 98 98 98 98 98 98 98 98 98 98 98 98	95 75 95	89 72 98 71 90 72 91 70 95 67 94 72 90 68 98 72 72 98 72 98 72 91 91 72 91 91 91 91 91 91 91 91 91 91 91 91 91	900 711 944 711 1011 733 957 72 99 72 101 69 98 72 98 70	95 72 89 71 92 70 95 69 101 68 94 73	93 67 97 71 72 98 .70	85 65 92 68 70 90 68 86 87 68 87 68 87 68 87 68	86 66 67 67 89 69	94. 72.5 91.5 71.7 92.6 70.7 94. 69.1 96.1 96.4 406.4 406.4 406.5 96.5 96.5 96.5 96.5 96.5 96.5 96.5 9

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

OCT 3 1932

UNIVERSITY OF ILLINOIS

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

or. XXXV. COLUMBIA, S. C., AUGUST, 1932.

# GENERAL SUMMARY.

ry badly distributed. The average temperature was near rmal.

The drought in July was broken by generally copious ins during early August, followed by intermittent showers, th dry weather again after the 21st. Cotton maintained fair good condition for the season, but there was complaint of edding due to considerable weevil activity; the first bale was tion of intermediate and late corn, sweet potatoes, truck, rage, and lesser crops was reflected in the amount of moisre received. Tobacco curing was practically finished by the d, fodder pulling made good progress, and the peavine harst began in the more southern sections about the 31st. atermelons, peaches, truck, grapes, and apples appeared market in season.

# PRESSURE.

The mean sea-level pressure, determined from reports of 8 gular Weather Bureau stations in and surrounding the Secn, was 30.01 inches. The highest pressure was 30.29 inches at heville, N. C., on the 23d, and in the Section proper, 30.26 hes at Greenville on the same date; the lowest pressure was 79 inches at Columbia on the 7th.

# TEMPERATURE.

The monthly mean for the Section, determined from rests of 40 stations, was 79.0°, or 0.2° above normal. The thest temperature was 103° at Society Hill on the 29th and Laurens on the 30th. The warm periods were on the 11th d 12th and from the 27th to the 31st, when the daily mean aperatures ranged from 5° to 13° above normal. The lowest aperature was 55° at Cherokee (near) on the 24th. The d periods were from the 20th to the 22d, when the daily an temperatures ranged from 5° to 6° below normal.

# HUMIDITY.

The mean relative humidity, determined from reports of 8 ular Weather Bureau stations in and surrounding the Secu, was as follows: 8 a.m., 84%; noon, 58%; 8 p. m., 73%. e highest percentages occurred along the coast, and the est, over the north-central counties.

The average for the Section, 52 stations reporting, was linches, or 0.41 inch below normal. Precipitation was stly intermittent until about the 21st, followed by generdry weather. The total monthly amounts were badly ributed and spotted as to areas and amounts, with 6 to

nearly 11 inches in the central, western, and southern coast sections and in small areas of the northern and extreme eastern counties; in un extensive area of the northern portion and northern coastal plain the measurements ranged downward from 5 to less than 2 inches. The greatest local monthly amount was 10.69 inches at Blackville; least local monthly amount, 1.22 inches at Laurens. The greatest 24-hour amount at any station was 6.65 inches at Rimini on the 4th and 5th. Precipitation averaged somewhat below normal, but was Light hail occurred at Landrum on the 8th. The average number of rainy days was 10% below normal.

Killed by Lightning .- 9th, near Montmorenci, a colored girl. Damage by Lightning .- A warehouse at Montmorenci was struck by lightning on the 9th and burned with contents, including 250 bales of cotton; loss estimated at about \$12,000.

### WIND.

The prevailing wind was from the south. The average aned near Elloree on the 11th, or normal date. The con- honrly velocity, determined from 8 anemometer records, was 7.0 miles. The highest velocity for any 5-minute period was 29 miles per hour from the southwest at Greenville on the 12th.

# SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 8 automatic records, was 274.5 hours, or 66% of the possible amount. The average number of clear days was 15; partly cloudy, 9, and cloudy, 7, as against normals of 13, 11, and 7 days, respectively.

# RIVER CONDITIONS.

The Santee River was in slight flood at Rimini and Ferguson several days during the latter part of the month. The Saluda River reached flood stage at Pelzer on the 1st. Savannah River was rather high at Ellenten from the 2d to the 12th, inclusive. On account of the rather abundant rainfall up to the 21st, most of the rivers of the Santee System averaged above normal.

# MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Santuck, 21, 22: Spartanburg, 24. Solar: Charleston, 24, 31; Columbia, 4, 31; Greenville, 28, 31.

Eclipse. - Partial solar, generally observed on 31st. Began, 2:31 p.m.; maximum, three-fourths covered, 3:40 p.m.; ended. 4:48 p.m.

Fog, dense.-Charleston, 29, 30; Grenville, 19.

1	mis	H	NEO	US.	DAT	A P	DR A	0000	1, 11	02.			
		sea.		perat ees F		tio	ipita- 11, hes.	Win 4-eup A	nem.	re	Mear duti midi	re	age of pos-
Stat	ions.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns
Augusta, Charlesto Charlotte Columbia Greenvill Savanna Wilmingt Means	e, N. C a, S. C le, S. C h, Ga	30. 03 29. 98 30. 01 36 02 30. 01 30. 02 30. 02 30. 02 30. 02	73. 7 81. 4 80. 7 78. 6 80. 0 77. 6 80. 6 79. 1	96 98 95 101 96 97 96 98	52 69 72 62 65 64 70 66	1.60 4.91 6.42 4.44 7.32 2.97 9.26 3.16 5,01	0. 33 2.22 2.32 1.50 4.12 1.46 5.73 1.16	6. 2 5. 2 9. 7 4. 3 6. 2 7. 0 9. 8 7. 4 7. 0	s. se. s. ne. ne. sw.	84 85 86 80 84 85 87 84	50 56 71 53 54 62 67 62 58	71 69 82 63 67 71 83 79	64 63 68 75 70 61 53 75

# Climatological Data for August, 1932.

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			record.	1	'empera	ture, i	n degi	rees Fi	anr.	_	rrecij				E 2	1	-		direction	1	
	Counties	feet.	of re	0	from		E-		1	chaily	.70	e from	in 24	wfall	ipitio		cloudy.	-	p Si	1	Observers.
Stations.	Counties.	Elevation, feet.	Length c	Mean.	Departure fro the normal.	Highest.	Date.	Lowest.	Date.	Greatest d range.	Total.	Departure fre	Greatest in hours.	Total snowfall.	With precipit	Clear.	Partly el	Clouds.	Prevailing C		-1
			-												1		1		1	1	
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Little Mountain Newberry	Newberry Newberry		711 502 850	10 77 29 79 29 79	1.5 -1 1.6 +0 1.8 +0	6 1	02 98	80 80	60 60 62	25 24 28	32 2. 29 5. 2. 34 5.	73 -9 04 -0 99 -1 28 +6	2.41 0 0.17 1 0.37 1 0.59 2	. 72 . 12 . 12 . 20	0 0 0 0 0	7 10 9 9	21 13 19 15	4 13 9 13	6 5 3 3	w.	Miss Alberta Sease. John H. Baxter. Earl J. Frick. B. B. Blease. E. W. Jeter.
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	1	1	1		4	1	1	1	1	3	1	1 100		-			of ro	nord	but	ali cor	nplete reports are used l

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, b, o), appearing in the table indicate number of days missing; for example, \* represents two days missing, etc. † Also on other dates. †† Received too late to be included in means and summaries. \* Temperature date; from observed readings of the dry bubble; means are completed from observed readings of other dates of these stations are as follows: of Gaston Shoats, Blackburg; of Winthrop College, Rock Hill; of Ferguson, Eutawville; of Cesar's Head, Greenville; of Beaufort (near), Burton. \* The Precipitation is less than 0.01 line of rain or melted snow.

Daily Precipitation for August, 1932.

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	Draimage-														l.	аус	of me	ontle															. 2
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gtor	Pee Dee				2. 76	. 51 1. 03 . 42 . 80	. 06 1	. 32		.21				.80						.77	. 27	. 97 . 59 . 30		. 04									2.06 6.61 6.71 3.91 8.29 6.21
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tw .    ton 18 Mountain prry	Lynches Broad Saluda Saluda Saluda Suludado	1. 98 . 88 T.	. 08 . 72 1. 08	. 10	.45	.51 .25 .50 .41	. 61	. 19	2. 97	46 T.			. 62	.05		T.	.08	. 57	 .06 .09 .03 1.12 5 .35		. 16 . 02 . 38 . 30				:::			T.	T				1.94 9.60 1.22 2.73 5.04 2.99 5.28
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xcept as otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of everation. Ill Precipitation nearsured in the norming; anomat their records is for the preceding 24 hours. \*\*\*Regular Weather Bureau station; precipitation is for this unit retrial, middlight to individual. \*\*Precipitation included in the next following measurement. Esparate dates of falls not recorded. T. strong, or less than 0.01 held.

COMPARATIVE DATA FOR AUGUST.

	Ter	aperaln	re.	Precipi	itution.		e num dnys.	ber of	iling direc-		Te	mperatn	re.	Precipi	itation.	Averag	e num duys.	ker of	ling direc-
ear.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind nio
	77. 8 74. 4 77. 1 78. 9 79. 5 77. 5 77. 9 4 80. 4 80. 6 78. 6 78. 6 80. 6 77. 6 77. 6 77. 6 77. 6 77. 6 77. 6	101 102 97 96 98 98 96 97 102 101 105 105 108 106 97 104 105 107 109 109 109 109 109 109 109 109 109 109	49 50 45 51 55 55 55 55 55 55 57 57 57 59 60 60 54 46 60 54 49	6. 54 4. 53 6. 37 4. 25 8. 79 4. 42 12. 45 7. 98 7. 95 4. 14 5. 16 9. 81 6. 26 2. 13 9. 01 5. 77 7. 15 8. 47 7. 16 8. 47 8. 47 8. 47 8. 48 8. 47 8. 48	11 10 12 9  13 11 13 3 7 7 18 10 5 5 15 12 14 11 15 9 9 9	10 10 9 14 13 8 12 21 1 7 14 15 12 15 7 13 12 15 15	9 18 14 12 9 9 11 11 19 9 14 10 10 9 9 8 17 13 11 12 12	12 8 8 8 5 9 1 1 10 7 7 7 10 8 8 7	SW. SW. SS. SW. SW. SW. SW. SW. SW. SW.	1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1924 1925 1926 1927 1927 1928 1929 1929 1929 1929 1929 1929 1929	80. 0 79. 2 78. 9 79. 0 78. 8 79. 6 78. 5 80. 2 76. 4 79. 3 80. 4 80. 2 80. 7 76. 1 79. 4 78. 0 77. 5 78. 2	104 104 104 101 102 100 102 106 103 100 102 98 101 105 109 109 99 98 101 103 103 103 103 104 105 106 106 107 107 108 109 109 109 109 109 109 109 109 109 109	51 54 52 56 52 58 49 52 53 56 56 56 54 49 54 53 55 49 54 59 50 60 60 60 60 60 60 60 60 60 60 60 60 60	6. 05 3. 69 3. 76 5. 88 7. 62 3. 27 3. 23 4. 45 5. 08 8. 08 4. 14 5. 07 7. 44 2. 86 4. 34 10. 22 3. 18 2. 42 4. 43 4. 5. 41 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	12 9 9 9 13 14 8 8 8 7 7 9 14 10 11 12 6 4 4 7 7 9 12 7 7 5 5 10 9 9 10	10 16 15 15 11 16 16 15 20 14 18 11 11 18 21 17 12 13 16 16 17 17 13 15	15 8 9 15 11 100 100 7 11 112 100 8 11 1 10 10 10 10 10 10 10 10 10 10 10 1	677799564 466111199433499777887	SW. SW. SW. SW. SW. SW. SW. SW. SW. SW.

polaris management of the second							D	ail	уТ	em	per	atu	res	fo	T A	Aug	ust	, 1	932												_			
Stations.	1	2	3	4	5	6	7	8	:   9	9	10	11	12	13	14	15	16	1	1	8 1	9 2	0 2	1 2	2 2	3 2	24	25	26	27	28	29	30	81	Mean
Eastern Portion.  Beaufort (near)   Maximum   Minimum   Maximum   Maximum   Maximum   Minimum	86 70 91 72 84 77 91 79 87 68 89 68	877 744 911 722 855 800 922 711 899 677 899 699	75 90 72 86 80 80 91 69 92 92 95 96 97	91	8	8 86 2 7: 1 8: 2 7: 4 9: 3 7: 4 8: 4 7: 7 9: 1 7: 2 8: 2 7:		92 76 93 71 92 78 91 71 92 75 89 69	95 72 92 70 89 75 90 73 93 72 91 72	91 74 90 70 89 74 91 70 69 90 69	900 74 94 70 86 75 93 65 90 68 94 67	70 94 71 92	91 71 91 71	6 7 8 8 8 7 5 9 7 7 7 6 9 7 7 8 9 8 7 8 9 8 7 8 9 7 7 7 8 9 9 8 9 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2		86 67 88 67 89 60 89 60 89	1	90 69 91 69 85 76 88 70 87 64 87 70	89 73 92 69 89 78 88 70 92 66 86 69	87 74 90 72 83 74 90 73 83 70 82 70	76 73 79 71 78 74 80 71 88 70 75 72	78 70 78 69 80 72 81 68 79 68 79 68	80 70 82 68 80 73 84 68 84 62 82 67	86 71 84 71 83 73 86 65 85 67 85 70	82 70 85 66 83 72 88 61 87 67 84 64	83 70 88 68 83 72 87 64 87 66 88 65	87 72 90 69 84 74 87 64 87 68 91 67	899 711 938 699 867 759 92 666 911 677 938 699		95 71 99 71 90 76 97 73 96 70 98 72		96 70 88 78 94 71 95 70 98 71	*88.1 *12.2 90.0 70.5 86.2 75.2 89.4 69.1 89.8 68.4 89.2 69.2
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Caesar's Head.   Minimum.   Minimum.   Maximum.   Maximum.   Minimum.   Minimum.   Maximum.   Maximum.   Minimum.   Minimum.   Minimum.   Minimum.	9-76	9 7	00 8	9 7	5 3	84 69 92 67	85 71 88 68	91 71 94 67	92 71 96 70	9: 8: 9: 6:	1	8 8 5 9 6 6	9		86 72 90 70	80 72 89 68	86 72 90 66	82 70 93 68	81 69 91 70	80 68 89 68	82 69 90 70	80 68 81 67	79 66 80 65	80 64 88 64	86 67	68		1	9 6		1	9 '	9 9	
Cherokee (near ) Maximum   Minimum   Minimum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Minimum	6 9	8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 3	74 78 78 78		84 70	86 71 89 72 82 73 86 72	90 67 93 69 91 72 90 68		9787	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8	95 70 96 74 90 69	81 66 84 70 89 72 80 70	86 62 79 68 86 72 79 69	85 63 78 70 87 68 79 70	81 68 69 85 70 76 69	78 68 82 69 88 73 79 69	79 68 82 69 88 72 76 69	66 89 68 90 72 85 69	67 85 68 79 68 81 68	61 85 67 81 68 80 65	58 85 60 84 68 83	57 85 60 84 68 83 66	58 81 81 81 81 81 81 81 81		6 7	2 6 9 9 7 7 7 9 0 7	2 96 4 66 2 96 5 66 2 90 7 7 1 7			8 9 6 9 7 9 7 7 2 7	
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Laurens. Maximum Minimum Minimum Maximum Maximum Minimum Maximum Minimum Nawberry Maximum Maximum Sainda Minimum Santuck Maximum Maximum Maximum Minimum Maximum Maximum Maximum Minim	97	5 0 3	68 85 68 89 72		89 74 87 66 96 75 74 90 75	86 70 85 67 90 70 	86 74 89 68 81 72 82 71 88 73	94 73 91 69 93 71 92 71 90 71	95 71 90 70 92 72 94 68 94 71	9 6 9 6 9 6	2 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	77			87 69 88 68 86 71 89 71 85 69	69 85 65 87 69 87 76 87 64	86 65 88 64 88 67 90 67 90		89 70 85 67 88 70 89 71 88 71	85 85 76 86 86 87 87	711 84 67 87 70 89 68 98		65 79 65 83 66 85 66 83 65	62 80 61 85 64 86 85 60	62 81 65 64 85 64 87 61 85 85 85 85 85 85 85 85 85 85 85 85 85	1	1 6 8 2 6 7 8 3 6 4 8 6 5	4 6 9 9 3 6 8 9		97 10 95 6 98 9 96 7 98 98 9 98 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 98 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 98 98 9 98 98 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 98 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 9 98 98	8 6	71 77 10 71 77 97 99 99 99 97 77 77 77 77 77 77 77	1 69 99 11 17 18 99 18 17 19 19 19 19 19 19 19 19 19 19 19 19 19	7 •68. 9 90. 8 66.
Spartanburg Maximum Minlmin Trenton Minlmin Walhalla Maximum Walhalla Minlmin Winusboro M Minlmin Wintsboro M Minlmin Wintsboro M Minlmin Winthrop College Minlmin	7 9 8		72 91 72 87 69 89	72 90	89 74 88 75 91 69 90 75 86 74	86 71 82 66 87 69 85 71 87 70	86 72 81 72 88 70 81 72 85 71	91 70 87 67 93 66 89 71 92 69	89 68 90 70 93 65 91 79 93 70	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 67 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	90 36 92 38 92 50 92 56 92 56	92 69 93 70 95 63 96 70 97 67	92 71 84 70 91 67 96 73 98 70	82 69 83 70 83 66 85 70 83 69	86 66 82 70 80 66 86 67 89 64	86 66 85 69 74 66 88 65 91 62	79 69 86 68 75 65 91 66 84 65	80 69 87 68 80 65 88 71 87 68	77 69 86 76 77 67 88 71 87	86 68 85 85 86 86 86 86 86 86 86 86 86 86 86 86 86	65 81 65 85 65 85 85 85 85 85 85 85 85 85 85 85 85 85	80 80 82 82 62 82 62 82 84 84 85	81 61 81 62 81 63 81 64 81 65 81 66 81 66 81 66 81 66 81 66 81 66 81 66 81 66 66 66 66 66 66 66 66 66 66 66 66 66	8 84 62 8 62 8 66 8 66 8 66 8 66 8 61 6 81 6 61	4 8 6 6 8 6 6 8 6 6 8 8 8 8 8 8 8 8 8 8	14 8 11 15 15 15 15 15 15 15 15 15 15 15 15	18 8 8 8 8 9 8 8 8 9 8 8 9 8 8 9 8 9	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	91 96 89 7 96 96 87 7 90 96 862 69 868 7 867 7	4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	96 97 70 77 71 77 97 10 85 6 99 10 73 7 71 7	72 72 72 72 72 72 72 72 72 72 72 72 72 7	5 87. 22 68. 88. 88. 87. 64. 87. 64. 89. 69. 90. 62.

Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

M Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 9-26-32-990

33

# CLIMATOLOGICAL

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

OL, XXXV. COLUMBIA, S. C., SEPTEMBER, 1932

#### GENERAL SUMMARY.

Temperatures averaged somewhat below normal, with no narked extremes, and precipitation was considerably below ormal, on the whole.

On account of deficient rainfall in the low country during he first two weeks and a week longer in the up-country, all te crops developed very slowly. Having proceeded under worable conditions, and corn fodder pulling was completed uring the last week. The major portion of the cotton crop orable moisture conditions toward the 30th. Fall plowing the northeast at Charleston on the 15th. as delayed by drought and hard soil, and oat sowing did not egin until toward the last of the month. Sweet potatoes, eaches, apples, grapes, truck, and lesser crops were offered season, and sales of watermelons closed about October 1, hen sorghum molasses was being made.

#### PRESSURE.

The mean sea-level pressure, determined from reports of 8 egular Weather Bureau stations in and surrounding the Secharlotte, N. C., on the 26th, and in the Section proper, 30.40 the average. nches at Greenville on the same date; the lowest pressure was 9.60 inches at Wilmington, N. C., on the 15th, and in the ection proper, 29.65 inches at Charleston on the same date.

#### TEMPERATURE.

The monthly mean for the Section, 41 stations reporting, as 73.2°, or 1.2° below normal. The highest temperature as 103° at Society Hill on the 2d. A moderate heat wave revailed from the 1st to the 6th, with relatively warm weather com the 16th to the 23d, when the daily mean temperatures anged generally from 5° to 10° above normal. The lowest emperature was 44° at Cherokee (near) on the 30th. The cool eriods were generally from the 7th to 9th, 13th to 15th, and 6th to 30th, with daily mean temperatures ranging from 5° 11° below normal.

#### HUMIDITY.

The mean relative humidity, determined from reports of 8 egular Weather Bureau stations in and surrounding the Secon, was as follows: 8 a.m., 82%: noon, 58%: 8 p. m., 70%. he highest percentages occurred along the coast, and the west, over the north-central counties.

#### PRECIPITATION.

The average for the Section, 54 stations reporting, was 3.22 inches, or 0.88 inch below normal. Precipitation was badly distributed, with 4 to over 8 inches in a considerable area of the coastal plain and in small sections of the extreme northwestern counties, while the amounts ranged downward from 4 inches to less than 1 inch in an extensive area of the interior. The greatest local monthly amount was 8.16 inches at Caesar's Head; least local monthly amount, 0.69 inch at Chappells. The greatest 24-hour rainfall was 4.75 inches at Caesar's Head on the 20th and 21st. The average number of rainy days was 14% above normal.

#### WIND.

The prevailing wind was from the east. The average as open by the close of the month, and picking and ginning hourly velocity, determined from 8 anemometer records. was nade good progress, although retarded somewhat by unfa- 7.6 miles. The highest velocity was 36 miles per hour from

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 8 automatic records, was 216.3 hours, or 58% of the possible amount. The average number of clear days was 13; partly cloudy, 8, and cloudy, 9, as against normals of 15, 8, and 7 days, respectively.

#### RIVER CONDITIONS.

The up-country streams averaged somewhat below normal on, was 30.06 inches. The highest pressure was 30.43 inches at stages, while the low-country streams ranged somewhat above

#### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 9, 12; Columbia, 9, 19, 20; Spartanburg, 13. Solar: Columbia, 1, 9, 22; Greenville, 1; Santuck, 1; Spartanburg, 1.9, 30.

Fog, dense. - Catawba, 23; Charleston, 18; Columbia, 1, 19; Mars Bluff, 1, 19, 23, 24, 25; Spartanburg, 23; Winnsboro, 27.

#### ERRATA.

Annual, 1927.—Lockhart, total rainfall, December, should be 8.81, and total annual should be 88.45.

#### MISCELLANEOUS DATA FOR SEPTEMBER, 1932.

	sea	Tem	erati	ire,	tio	pita- n, hes.	Win 4-cup A		re	lati nidi	re i	e of pos-
Stations.	Barometer,	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible suns
Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C. Columbia, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex- tremes	30. 09 30. 04 30. 03 36 08 30. 06 30. 07 30. 04 30. 05	66, 6 76, 1 76, 4 72, 0 74, 0 72, 0 76, 2 78, 9 73, 4	90 97 91 99 96 95 93 94	41 56 61 52 55 54 59 52 41	2.21 1.31 7.18 1.96 2.46 2.79 10.09 5.44 4.18	0.63 0.54 4.19 0.96 0.86 0.91 2.09 2.90 4.19	7. 2 5. 5 10. 6 5. 0 6. 4 7. 9 10. 4 7. 9	se. ne. ne. ne. ne. e. ne.	85 84 80 79 81 78 87 82 82	51 54 65 55 56 57 67 59 58	64 70 77 63 65 62 79 76	58 57 68 58 56 56 47 66

Climatological Data for September, 1982.

					Clima	tolog	rical	Data	ior	Sept	ember	, 198	č.							
			record,	ı	'emper	ature.	in deg	rees F	ahr.		Precin	itation,	in inc	hes.	Nun	ber	of da	ays.	tion	
Stations.	Counties.	on, feet	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest dally range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	With precipition (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direction	Observers.
Kastern Portion,								3				1000			1 0				160	4-04
Beaufort (near)‡‡ Blackylije Clurlestan, Cheraw	BeaufortBarnwellCharlestonChesterfield	21 296 48 144	52 49 62 51	75.0 75.0 76.4 73.0	$     \begin{array}{r}       -2.3 \\       -0.9 \\       -0.2 \\       -0.6     \end{array} $	96 98 91 98	1 2 2 2	54 58 61 50	29 8 30 † 8	31 35 23 34	3.63 3.57 7.18 3.34	-1.55 $-0.72$ $+2.65$ $-0.41$	2.00 1.74 4.19 1.42	0 0 0	9 8 10 9	11 12 6 	12 12 11	7 6 13	e. ne.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Wenther Bureau. Roland D. Powe.
Conway Darlington Effingham Ferguson[‡	Horry Darlington Florence Orangeburg	25 175 106 63	44 38 42 47	73.7 73.4 73.5	-1.3 -1.3 -1.2	97 101  97	2 2 † 2	49 50 47	30 30 9	38 32 38	5.21 3.09 2.92 6,65	+0.14 -1.34 -1.66 +2.43	2.93 0.95 1.04 2.98	0 0 0	6 11 9 8	12 17	3	15	se.	Perry C. Quattlebann. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Marion	136 136 82 54 68	51 18 15 51 8	72.6 *75.4 75.4 72.8	-2.6 -1.8 +0.5	99 *100 100 99	2 2 2 2 2	*49 48 46	30 † 8 † 8 30	38  *41 43 40	2.71 3.30 3.08 4.56 2.03	-1.60 -1.01 -3.21 +0.21	0.75 1.50 0.88 3.10 1.05	0 0 0 0	11 5 9 7 11	16 19 5 20 21	5 3 17 1 4	9 8 8 9 5	ne. e. n. s.	H. K. Gilbert. Pee Dee Experiment Sta. Muner B. Rohert. Mrs. Ellen Scott. Dr. Charles B. Whilden.
Mars Bluff	Horry Orangeburg Berkeley Sumter	92 30 264 54 97	9 1 18 86 19	<sup>674. 2</sup> 74. 4	-1.4	ь98 98 184	2 2 17	52 154	30 9 30	ъзо 35	2.76 4.88 3.95 4.89 6.32	-0.57 +0.20 +0.99	0.75 2.21 1.50 2.19 3.00	0 0 0 0	7 7 8	19 11	7 10	4 9	e. e.	Rosa R. Davis. Myrtle Beach Invest. Co. U.S. Fisheries Station. Miss E. P. Ravenel. Marion P. Sweatman.
Society Hill Summerville Sumter Wedgelleld Vonnssee	Dorchester	192 75 169 249 24	42 85 11 42 44	°72.6 74.6 73.4 73.8 74.5	-1.1 -0.9 -1.0 -0.5 -1.3	°103 95 97 98 98	† 1 2 2 2 2	049 51 48 51 48	30 9 9 30 † 8	36 35 38 33 41	2.16 6.64 3.77 3.24 3.45	-2.20 +1.44 -0.46 -0.94 -1.11	1.60 4.00 1.10 1.00 1.33	0 0 0	7 9	15 16 11 20 14	9 1 6 . 4 4	6 13 13 6 12	w. e. ne. ne.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and				74.1	-1.2	103	2	46	30	43	4.06	-0.58	4. 19	0	8	14	8	9	e.	9-000
Western Portion.		0 = 1		1000	armed a														7	
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Culuwba Chappells. Cherokee (near) Clemson College Columble	York Newberry Spartanburg	562 402 758 850 351	27 28 5 41 46	70. 4 *72. 4 74. 0	-0.5 -0.5	96 *96 96	2 2 2	44 *46 55	30 30 8		2.04 0.69 1.50 1.23 2.46	-1.72 -2.99 -2.80 -0.99	0.28 0.46 0.26	0	8 6 7	20 13 9	3 6 10	7 11 11	w. ne.	James C. Faris. William Spearman. Spartanburg Water Work. Prof. F. H. H. Calhonn. U. S. Weather Burean.
Crescent	Edgefield	630 550 76 680 1039	6 20 1 30 49	72.0	+1.4	95	2	54	26	26	4.16 1.01 1.83 1.34 2.79	-2. 06 -2. 18 -0. 89	1.85 0.48 0.60 0.51 0.91	0	6 6	10	9		ne.	Duke Power Co. U. S. W B. Aerological St. A. A. Foreman. Southern Public Utilities U. S. Weather Burean.
Greenwood Heath Springs Kershaw Landrum Laurens	Kershaw	568 500 1063 589	49 31 17 18 15	72.9 70.8 72.5 71.9 73.4	-0.5 -2.6 -2.0 -1.1 -0.4	96 96 101 97 100	3 2 2 2 2 2	51 49 50 47 51		32	1, 90 3, 20 8, 25 3, 23 4, 16	-1,74 -0,20 -0,56 -1,50 +0,08	1.24	9	9	13	7	17 14 6 7	e. e. n. ne.	M. M. Calhonn, J. Murvin Bowers, John W. Hamel, R. Hurtwell Wilds, D.D.S. L. G. Roff.
Little Monntain. Newherry Pelzer Saludu Santuck	Newberry	711 502 850 536 512	31	73. 4 74. 2 73. 5 72. 6	-1.4 -1.0	99 98 98 101	2 2 2 2 2	52	30	36	1, 38 1, 06 4, 06 2, 07 3, 72	-2.06 -2.39 +0.50 -1.65 +0.06	2.56		7 6 5		:::		se. e. se.	Miss Alberta Sease. John H. Baxter. Earl J. Frick. B. B. Blease. E. W. Jeter.
Spartanburg Trenton Walhalla Winnsboro Winthrop College !!	Spartanburg	1061	56 40 33 39 33	72.2 75.8 70.8 73.4 72.6	0.0 +0.5 -1.4 -0.5 -0.7	98 102 96 100 100	17	50 53 46 51 49	† 8 8 30	36 42 38	1.61 1.79 5.50 2.10 2.08	-1.85 -1.85 +0.86 -1.52 -1.38	0. 88 1. 50 0. 88		3 12 10	15	9 15 8 12	14 5 7	ne.	U. S. Weather Bureau. Mrs. S. E. Long. II. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division means and	extremes			72.5		102				42	2.59	-1.18	4.75	10			1		100	100000000000000000000000000000000000000
Section means and	extremes	·		73.2	-1,2	103	2	44	30	43	3, 22	-0.88	4.75	5	0 8	13	8	9	е.	It the with some
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are upon in determining section or division means. Reference letters (\*, \*, \*\*\*0, \*\*appearing in the tuble indicate number of days missing; etc. in research, to motive dates, the Received too fact to be included in means and summaries. "Temperature date when the research of the dry built; means are compared to the research of the dry built; means are compared to the research of the research of the dry built; means are constitution of the dry built; means are constitution of the dry built; means are constitution of the dry built of Result of Beaufort (near), Burton. Telepitation is less than 0.01 inch of rain or melted snow.

Daily Precipitation for September, 1932.

Per   Per	Stations   Drainage   Dustins																																
The part	Seast	Drainage.								T							Day	of u	1011tl	n.													
Continue   Coast   T	otations.	busins.	ì	2	8	4	8	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	30 31	Tota)
Pee   Bee	fort(near). ville     . eston ***	Edisto			T.		Ť.	T.					T.	T.	. 05	2.63	1.7	4 .09				.00	0.0	771	177	rgs.		T.		.06	. 80 .		. 7.1
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Heelen	nce 1     nce 2	Peo Deedo			T.		****	T.								. 20	1. 0 2. 9 . 7	4 . 45 8 . 62 1 . 58	. 42			т. Т.	.10	1. 32 . 05 1. 50	. 75		. 87	.02	. 15 . 19 . 04 T.	. 12 .23 .16 .85	. 17 . 47 . 11		2.9 6.6 2.7 3.3
	m Bhuff, e Bench feburg	Pee Deedo Const Edisto	::::		.72		'n.				::::		:::			. 10 . 38 . 14 1. 95	3.10 1.05 .65 2.21	. 45 5 . 75 1 . 09			.03	.13	T. .04 .08 T.	10 .08 T.	.03		.05	. 02 T.	. 08 . 12 . 04	. 10 . 10 . 10	. 66		. 4.5 2.0 2.7
State	ıl ## y IIIII ## Perville ##	Suntee Pee Dee			.88			····							. 05	. 12	.68			••••		••••	•••	. 05	. 82		. 40	. 32	.21	.03	.05		. 4.8
Savannah   50   48   71   T   10   08   20   10   45   20   20   45   20   20   20   45   20   20   20   20   20   20   20   2	eliola ssoell   estern Portion.	Ashepoo			. 20				, 35		:::				.18	1.00	1.38	.29		::::	.05	. 10	.50	.48	T.	. 01		Ť.	. 08	.02			3.7
California	's Head an Fulls     en	Savamuch Broad Salnda Savamuch	::::		.50	2. 22		.71								T.	. 18				:::	.52	4.75	. 18	. 15		. 98	. 70	. 10	. 40	. 23		2.5
Savannah   48   38   38   38   38   42   46   62   41	kee (near) on College	Catawba Salada Broad Savannah Congaree				.09	::::							::::		.02	.30	. 05			 Т.	.20		.13	. 25	.12 T.	.06	.02	.31	.03 .15 .43	.85		2.0 0.6 1.5 1.2
Springs	eld	Savannah Savannah Brond			.48			.38	.30			• • • • • • • • • • • • • • • • • • •	::::			.35	. 60	.03							.18	. 34			45	20	.02		1.00 1.80 1.80
Same   Same	Springs	Wateree			. 65	. 11		::::								. 25	. 19			: ::	.83	.08	. 42	.40	, 15		.90	.06	.31	. 43 .	::.	::	2,79 1,90 3,20
	Monutpin rry	Saluda Saluda Saluda Saluda			1, 22 	.19	.10	T.								.06	.08		::::				. 40	. 47 . 67	. 23	.34	. 12	. 42	.03	. 66 .			3.25 4.16 1.38 1.06
rop College Catawba	k nburg *** n	Brond					.89	.06								.22	Ť				T		.72	. 60	т.	. 61		.15	. 15 .	.76			4. 06 2. 05 3. 72 1. 61
	lord							.05				•			.07		.28	.21	• • • • •			. 35	. 44	.29		1,50	. 07		. 18	. 01	.02		1.70 5.50 2.10 2.68

scept as otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of evaluon. Ill Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station: precipitation is for the mur period, midnight to midnight. \* Precipitation included in the next following measurement. ISeparate dates of falls not recorded. T. Trace, or less than 0.01 incl.

COMPARATIVE DATA FOR SEPTEMBER.

	Те	mperatu	ire.		ilation.	Averag	e num days.	ber of	iling direc- on.		Te	mperatn	ire.	Precip	itution.	Averus	ge num duys.	ber of	ling direc-
est.	Меап.	Highest.	Lowest.	Average	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevai wind	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind d
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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

% Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 10-26-32-900

# DATA . UNIVERSITY OF ILLINOIS CLIMATOLOGICAL

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

COLUMBIA, S. C., OCTOBER, 1932. XXXV.

#### GENERAL SUMMARY.

Precipitation averaged considerably more than twice the mal, and the temperature average was somewhat above

mal iods of soaking rains, and allfall crops and pastures showed 7.9 miles. The highest velocity was 38 miles per hour from the improvement. Plowing was retarded at intervals by favorable soil conditions, but this work became active durthe relatively dry period after the 18th. Oat sowing made od progress, and early plantings came to good stands by the outh, and picking had progressed to the gleaning stage by cloudy, 5, and cloudy, 8, as against normals of 18, 6, and 7 wember 1, with ginning well advanced. The watermelon days, respectively. son closed during the first week. Sweet potatoes, apples, d all kinds of truck were offered in season, and sorghum and gar cane sirup making was in progress at the end of the month.

The mean sea-level pressure, determined from reports of 8 gular Weather Bureau stations in and surrounding the Secon, was 30.03 inches. The highest pressure was 30.42 inches at ches at Asheville, N. C., and Augusta, Ga., on the 17th, and the Section proper, 29.52 inches at Columbia on the same

#### TEMPERATURE.

The monthly mean for the Section, determined from reorts of 42 stations, was 63.7°, or 0.1° above normal. The ghest temperature was 89° at Trenten on the 24th. The arm periods were generally from the 16th to the 26th and t the 30th and 31st, when the daily mean temperatures unged from 5° to 13° above normal. The lowest temperature as 31° at Caesar's Head and Walhalla on the 7th. The cold eriods were on the 1st and 2d, from the 6th to the 8th, and anged from 5° to 17° below normal. Killing frosts occurred 31: Trenton, 26. t a few extreme up-State stations on the 7th and at one staon in Union County on the 28th.

#### HUMIDITY.

The mean relative humidity, determined from reports of 8 egular Weather Bureau stations in and surrounding the Sec-ion, was as follows: 8 a.m., 84%: noon, 58%: 8 p. m., 72%. he highest percentages occurred along the coast, and the owest, in the interior.

#### PRECIPITATION.

The average for the Section, 54 stations reporting, was .99 inches, or 3.93 inches above normal Precipitation ocurred in four periods, with three periods of heavy to excessive ains. The measurements ranged from 6 to over 14 inches in he northern and eastern counties, while in the southwestern ounties the amounts ranged downward from 6 to less than 4

inches. The greatest local monthly amount was 14.51 inches at Caesar's Head: least local monthly amount, 3.47 inches at Aiken. The greatest amount during any 24 hours was 7 25 inches at Greenville on the 15th and 16th. The average number of rainy days was 20% above normal. There was no snowfall.

Damage by Lightning .- A dwelling was fired by lightning at Myrtle Beach on the 5th and burned; damage about \$2,500.

The prevailing wind was from the west. The average Soil moisture was materially replenished during three hourly velocity, determined from 8 anemometer records, was

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 8 autose of the month, when the forage harvest was about comted. Cotton was practically all open by the middle of the amount. The average number of clear days was 18; partly

#### RIVER CONDITIONS.

Freshet conditions were prevalent progressively in all streams of the Section after the heavy to excessive rains during the period, 15th to 17th, inclusive. The Savannah River was in flood at Ellenton on the 20th and 21st. The Santce River continued in flood at Ferguson and Jamestown at the close of the month. The Pee Dee River was in flood at Mars theville, N. C., on the 9th, and in the Section proper, 30.41 Bluff until the close of the 31st, and at Posten, until the close of the 30th. The flood losses in the Santee River System approximated \$3,680, and the value of movable property saved by warnings was estimated at \$25,550. In the Pee Dee System. the losses were estimated at about \$1,700, and the value of movable property saved by warnings approximated \$23,000.

#### MISCELLANEOUS PHENOMENA (dates).

First killing frosts or freezing temperatures.—Caesar's Head and Walhalla, 7; Santuck, 28.

Halos-Lunar: Charleston, 14; Cheraw, 14, 15; Greenville, 13, 14; Columbia, 14, 15; Little Mountain, 15; Santuck, 14, 15; Spartanburg, 13, 14, 15; Walhalla, 9. S Charleston, 26; Columbia, 11, 15; Spartanburg, 14, 24.

Fog, dense. - Charleston, 24; Cheraw, 25, 26, 31; Columbia, a the 12th and 18th, when the daily mean temperatures 24, 25; Darlington, 26; Kershaw, 26; Mars Blvff, 4, 25, 26,

## MISCELLANEOUS DATA FOR OCTOBER, 1882.

	sea	Temp	eratu es Fa	re. hr.	Precintion tion inci	1,	Wine 4-cup A	nem.	re	lean lativ nidit	e y.	e of po
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage of po
Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex- tremes	30, 06 30, 00 30, 02 30, 05 30, 03 30, 03 30, 02 30, 04 30, 03	56. 2 65. 3 69. 2 62. 6 65. 0 62. 4 69. 1 66. 6	78 86 84 82 83 81 87 81	30 42 51 39 41 40 50 45	6. 35 6. 08 6. 98 7. 52 6. 35 12. 68 4. 71 5. 42 7. 01	2.34 2.99 3.08 4.99 2.74 7.25 2.67 2.48 7.25	8 5 5.2 10.6 4.9 6.3 7.9 11.3 8.4 7.9	nw. nw. ne. s. ne. ne. e. s.	87 90 81 82 85 75 87 86 84	54 54 66 51 52 57 65 61 58	72 70 77 65 65 67 80 84 72	56 65 74 73 63 64 59 71 66

#### Climatological Data for October, 1932.

					Clim	atolo	gical	Data	a for	Oct	ober,	1932.								
	13/2		record,	Т	empers	ture, i	n degr	ees Fa	hr.		Precip	itation.	in ine	hes.	Nun	ber c	f da	ys.	tion	0
Stations.	Counties.	Elevation, feet.	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.		Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	With precipit on (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Eastern Portion.			1			1		1	1											
Beaufort (near)‡‡ Blackvilie Charleston Chernw	Beaufort	21 296 48 144	52 49 62 51	66. 6 66. 8 69. 2 63. 3	-1.2 +1.8 +1.4 +1.1	81 86 84 82	†11 24 11 † 4	48 42 51 38	† 7 †28 7 29	29 41 20 39	3.60 4.75 6.98 7.75	+0.42 +2.04 +3.71 +4.86	1. 05 2. 15 3. 08 5. 52	0 0 0 0	5 6 9 5	17 16 14	5 11 7	9 4 10	e. ne.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway Darfington Effingtion Ferguson‡‡	Horry Durlington Florence Orangeburg	25 175 106 63	44 88 42 47	65.9 65.0	+1.0 +1.3 +0.9	86 85 85	11 24 †20	40 35 37	29 29 29	42 39 	7.17 6.93 6.31 5.24	+4,00 +3,94 +8,28 +2,32	3.11 5.10 4.04 3.07	0 0 0 0	9 8 7 5	25 22  20	0 2	6 7 10	sw.	Perry C. Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1 Florence 2 Garnett. Kingstree. Marion	Florence	136 136 82 54 68	51 18 15 51 8	64.1 66.8 66.8 64.2	-0.1 -0.7 +2.1	86 87 87 86	24 25 24 24	35 39 36 36	29 †28 29 29	44 44 45 41	6.51 7.28 4.46 6.06 6.28	+3.47 +4.24 +2.12 +3.34	4. 35 5. 00 2. 14 2. 80 2. 60	0 0 0 0	7 5 7 8 7	14 24 11 20 21	12 4 13 4 6	5 3 7 7 4	ne. s. n. s.	H. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Mrs. Ellen Scott. Dr. Charles B. Whilden.
Mars Bluff Myrtle Beach Orangeburg Pinopolis** Rhuini	Berkeley Sumter	92 30 264 54 97	9 1 18 86 19	*66.8 65.8 62.4	0. 0 -1. 8	*84 83 79	†19 4 5	*41 41 38	29 29 29 29	*41 36	6.82 5.66 3.67 5.93 3.95	+1.56 +3.02 +1.72	4.36 2.30 2.06 2.00 1.95	0 0 0 0	7	23 13 21	5 8 5	3 10 5	e. e. nw.	Rosa R. Davis. Myrtle Beach Invest. Co. U.S. Fisheries Station. Miss E. P. Ravenel. Marion P. Sweatman.
Society Hill	Sunter	192 75 169 249 24	42 35 11 42 44	°62.0 67.2 65.4 65.1 65.4	-0.6 +1.4 +1.4 +1.1 -0.3	°86 88 84 88 87	24 24 †19 4 24	*34 39 36 38 40	†29 29 29 29 †28	°46 38 45 40 41	9, 42 5, 35 5, 66 4, 37 4, 78	+6.40 +2.28 +2.90 +1.63 +2.02	6.50 1.77 2.31 1.98 2.00	0 0 0 0	5	21 15 19 20 18	5 4 6 2	5 11 8 5 11	w. n. n. w. nw.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Rumsey W. G. Hutson.
Division means and				65, 5	+0.5	88	24	34	†29	46	5.87	+3.03	6. 50	0	7	19	5	7	ne.	
Western Portion.																				
Alken Anderson Blairs Cæsars Hend‡t Calhonn Falls Cam <sup>3</sup> en	Anderson	527 764 293 8118 508 222	40 28 9 84	65. 8 62. 2 53. 4 63. 8 64. 4	+1.7 -1.0  +0.9 +1.5	83 81 75 83 86	24 19 24 24 † 4	42 38 31 34 35	12 † 7 7 7 7 7 29	37 37 34 44 42	3.47 9.06 5.42 14.51 8.67 7.03	+0.78 +6.24 +2.80 +5.66 +4.28	6.00	0000	10 5 7	17	3 1  8 8	9	e, w.	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Cæsar's Head—P. Mtn. Co L. M. Purker. Henry A. Brown.
Cutawba Chuppedls Cherokee (near) Cleuson College Columbia	. York Newberry Spartanburg	562 402 758 850 351	28 5 41	59. 0 60. 6 65. 0	-1.2 +0.7	82 84 83	19 18 24	33 35 41	29 † 7 29	44 40 31	7. 33 6. 23 10. 78 9. 12 6. 35	+4.06 +3.56 +5.86 +8.79	3.10	0 0	5 6	24	 1 2 9	 6 9 8	w. ne.	Jumes C. Faris. William Spearman. Spartanburg Water Works Prof. F. H. H. Culhoun. U. S. Wenther Bureau.
Crescent. Edgefield Ellenton Gaston Shoals 11. Greenville.	Edgefield	630 550 76 680 1039	20 1 30	62.4		81	18	40	7	25	9.89 4.40 8.61 9.52 12.68	+1.60 +6.54 +9.56	6.50	1 0	5 4 6 7	18	3	10	110.	Duke Power Co. U. S. W. B. Aerological Sta. A. A. Foreman. Southern Public Utilities. U. S. Weather Bureau.
Greenwood Heath Springs Kershaw Landram Laurens	Kershaw	568 500 1068 589	31 17 18	60.4 61.8 63.7 60.9 62.2		80 81 86 82 83	† 4 24 †25 24 †19	38 38 37 35 35	† 7 29 29 29	41	6. 67 8. 45 7. 92 7. 65 8. 19	+8.74 +5.77 +5.12 +3.45 +4.85	5. 25 4. 06 2. 24		0 6	13 14 22	0 4 0 3 6	14 17 6 6	n. e. w. w.	M. M. Calboun. J. Marvin Bowers. John W. Humel. R. Hartwell Wilds, D.D.S. L. G. Roff.
Little Monutuln Newherry Pelzer Saluda Santuck	Newberry	711 502 850 536 512	29 29 31	63.1 63.2 61.3 *62.3	-1.6	85 84 86 884	24 119	36 38 36 *\ti2	7 29 + 7 28	44	8, 52 7, 06 7, 52 6, 41 7, 83	+5.55 +4.28 +4.27 +3.48 +4.78	4.25 4.74 3.85		0 6	19	6 8	5	e. s.	Miss Alberta Sease. John H. Baxter. Earl J. Frick. B. B. Blease. E. W. Jeter.
Spartanburg Trenton Walhalla Winnsboro Wintbrop College ‡‡	Spartanburg Edgefield	1061	1 33 5 39	66.0 59.8 63.8	+1.3 -1.0 +1.2	89 85 83	†19 18 4	38 39 31 40 39	7	47 42 35	6.87 5.57 11.89 5.60 8.30	+2.48	3.98 5.81 3.28		0 0 0	17	5 6 1 9	10	sw. ne.	U. S. Weather Bureau. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division means and Section means and	extremes	1		62.2			1	31 31	1		7. 82 6. 99	+3.9	10		-	5 18 6 18				
	1	1	1	1	1	1	1	1	1	1	3		1.0	3	1	4	,		1	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, b, \*), appearing in the table indicate number of days missing: for example, by represents two days missing, etc. It is not other dates. If Received too late to be included in means and summaries. Therefore address of the dry bubble means are computed from observed readings of the dry bubble sections are as follows: Of distribute, I days followed the dry bubble of the dry bubble sections are as follows: Of distribute, if which possible addresses of these stations are as follows: Of distribute, if which possible distributes of the dry bubble sections are as follows: Of distribute and the dry of the dry bubble sections are as follows: Of distribute and the dry of the dry bubble sections are as follows: Of distribute and the dry of the dry bubble section are as follows: Of distribute and the dry of the dry bubble section are as follows: Of distribute and the dry of the dry bubble section are as follows: Of distribute and the dry of the dry bubble section are as follows: Of distribute and the dry of the dry bubble section are as follows: Of distribute and the dry of the dry bubble section are as follows: Of distribute and the dry of the dry bubble section are as follows:

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#### ERRATA.

Annual, 1930.—Killing frost table, page 53, 1929 should be changed to 1930, and average number of growing days for the year 1930 should be 228 instead of 226.

Daily Precipitation for Uctober, 1932.

	Draimage.															Duy	of m	onti	١.														
Stations.	busins.	1	2	3	4	ō	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	80	18	Tota
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ngton     ghum	Pee Den Lynches			. 41	.05	т.	. 69										. 67	5. 10	. 07									. 15					6.98 6.81 5.24
ence 1	Santee			.23	••••		. 65	Ť.									2. 14	4. 35	. 06	.01				:				. 62 1. 08			:		6.51 7.28 4.46
stree	Black Pee Dee			. 12	. 16		1.58						. 05				1. 02	2.80	. 15									18					6.06
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ni lit	Cooper		. 65	. 10		1. 20	. 75			••••			.02			1.00	2.00	1. 95		••••	••••				••••	••••	. 01	48		••••		. 92	5. 93 3. 95
ty	Pee Dee Ashley Wateree	::::		i. 37			1.00 1.54 .23	::::						::::		1:	. 52 . 43 2, 00	1.77 2.81	. 19								. 14	. 05					9.42 5.35 5.66
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vba   f  petis   f  pkce (near)	Catawba Salada Broad				T									::::			1.54 1.38 4.84	$\frac{4.22}{3.75}$	.18	. 02		::::					. 67						7.33 6.23 10.78
son College, mbla *** ent.	Congaree Enoree		12		. 10	1.70	.37 .21 1.37									. 05	2.65	.18	T.								T.	.45	::::			2.20 1.38	9.12 6.35 9.89
tonn Shonls	Savannah Savannah Brond						. 48 1.28					::::		::::	:		99	2, 98 1, 20									. 19						4.40 3.61 9.52
ville *** (wood	Salndado		••••		. 33	. 80	1.01										1,70	3, 64	T18									. 11					12.68 6.67 8.45
nw .lll	Lynches Broad					1 09	2.86										1. 26	4.06	.05	. 03							. 24	.16				2. 20	7.92
Monntain	Saluda Saluda	• • • •	• • • •		. 03	1.19	. 39	• • • •							• ••	. 06	4.36	1.47				:			,			.35					8.19 8.52 7.06
elr	do					.12	. 60					T.				1.50	1.88 3.85	4.62 .41	. 12									. 18				Т.	7.52 6.41
ek anburg *** on illa	Broad do Edisto Sayannah					. 28					• • • •				••••	т.	1.16 3.10	4.88 .85	.06							. 16	T.	T.				.28	7.88 6.87 5.57
sboro       rop College	Broad Catawba					.67	1.00									Т		$\frac{1.43}{3.25}$	.31									.26				3.30	11.89 5.00 8.80
		1	1	1	1	1	1		1	1	-		-	1	- 1	1	1		ı				1		- di	1				1	1		

xrept as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of creation. III Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\*\* Regular Weather Burean station; precipitation is for the nour period, midnight to midnight. \* Precipitation included in the next following measurement. Isoparate dates of falls not recorded. T. Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR OCTOBER.

							-1 111011	TIVE	DILLI	LOW OCT	JDER.								
	Te	mperatu	re.	Precip	itation.		e num days.	ber of	ling lirec-		Te	mperatn	re.	Precipi	itation.	Averag	e num days.	ber of	ing irec-
ent.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevaili wind dir	Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.	Prevail wind di
	61. 4 59. 3 60. 8 63. 0 60. 2 63. 8 64. 4 64. 2 61. 3 65. 8 62. 9 64. 2 67. 6 62. 4 63. 0 62. 4 64. 2 64. 2 65. 0	91 88 88 88 92 92 90 90 95 91 95 90 91 95 95 95 95 95 95 95 95 95 95 95 95 95	30 31 27 22 28 27 25 33 28 25 33 28 35 28 35 29 30 25 26 27 27 27 27 28 27 27 27 28 28 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	5. 96 4. 18 1. 65 4. 06 1. 63 0. 60 4. 92 4. 95 1. 15 1. 41 3. 28 5. 00 89 4. 40 2. 63 1. 10 1. 97 3. 69 0. 73 4. 22 2. 43 4. 39	87 3 3 55 55 34 45 9 9 37 75 38 67 38 67 38	18 20 20 15 14 14 14 12 22 19 18 23 15 14 19 19 23 20 20	7678887765667657	6 5 4 4 8 9 9 10 11 13 7 7 7 3 10 11 1 5 6 6 6 8 3	n. sw. n	1911 1912 1913 1914 1915 1916 1917 1918 1919 1919 1920 1921 1922 1923 1924 1925 1925 1926 1927 1928 1929 1929 1929 1929 1929 1929 1930 1930 1930 1930 1930 1930 1930 193	67. 5 65. 0 62. 5 64. 7 64. 0 59. 3 67. 3 73. 7 64. 1 62. 6 64. 5 62. 9 62. 9 65. 1 65. 8 66. 4 61. 1 65. 9 65. 9	99 94 95 92 93 92 90 93 101 92 90 94 90 98 98 98 98 98 98 98 98 98 98 98	37 32 28 26 27 31 22 23 34 44 25 27 31 29 28 26 26 26 32 32 32 33	5.89 2.21 3.56 3.44 4.95 2.54 1.50 3.75 2.53 0.76 1.79 5.57 1.14 1.50 2.93 1.44 3.25 1.91 7.31 2.18 0.80 6.99	8 5 6 8 8 8 5 4 4 5 5 5 2 4 8 8 4 2 2 8 5 6 4 5 5 3 6 6	12 18 19 13 18 16 23 15 13 24 21 18 23 15 17 20 17 18 18 18 18 18 18 18 18 18 18 18 18 18	9 4 6 77 77 5 8 10 4 4 4 5 6 6 8 5 5 5 6 6 5	10 9 6 11 6 8 8 8 8 8 8 7 5 5 6 8 7 7 7 4 8 8 8 7 7 8 7 8 7 8 7 8 7 8 7	ne. ne. ne. ne. ne. ne. sw. ne. ne. ne. ne. ne. ne. ne. ne. ne. ne
								<u>-</u>		Period	63.6	101	22	3.06	5 1	18	6	7	ne.

40	Daily Temperatures for October, 1932.	
	1	30 31 Mean
Beaufort (near)	2 3 4 5 6 7 8 9 10 11 12 13 13 13 13 13 14 14 15 16 17 18 17 17 18 18 17 18 18 17 18 18 17 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	76 75 74 74.8 80 75.4 74.8 80 75.4 80 75.4 74.8 80 75.4 74.9 76.9 80 75.4 75.5 80 75.8 80 75.8 80 75.8 80 75.8 80 75.8 80 75.8 80 75.8 80 75.8 80 75.8 80 75.8 80 75.8 75.8 75.8 75.8 75.8 75.8 75.8 75.8
Florence     Maximum   78	\$\frac{4}{5}\$ \ \frac{5}{5}\$ \ \frac{5}{6}\$ \ \frac{6}{6}\$ \ \frac	78 S1 78 77.8 77 45 53 52.4 76 79 77 77.1 78 84 47 78 51.1 79 83 80 79.8 84 85 47 48 71.2 79 83 80 79.8 84 85 47 48 71.2 79 85 48 84 84 84 84 84 84 84 84 84 84 84 84
H'estera Portion.  Aiken   Maximum   7 Anderson   Minimum   7 Anderson   Minimum   7 Anderson   Minimum   7 Anderson   Minimum   7 Canden   Maximum   7 Calloun Palls   Maximum   7 Canden   Minimum   7 Canden   Minimum   7 Cherokee (near)   Maximum   7 Cleman   College   Minimum   7 Cleman   College   Minimum   7 Cleman   College   Minimum   7 Columbia   Minimum   7 Minimum	Tel. 74 177 80 78 75 67 68 79 80 78 75 76 77 76 76	11 35 42 49 49 49 49 49 49 49 49 49 49 49 49 49

Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

64 Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 11-25 82-950

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

OL. XXXV. COLUMBIA, S. C., NOVEMBER, 1932. No. 11

#### GENERAL SUMMARY.

Precipitation averaged nearly twice the normal, and the verage temperature was much below normal.

The rains were generally timely, and fall plowing proressed favorably. Oat sowing made good progress, and early lantings germinated well. Wheat sowing began about the properties of the month. Cotton picking was practically finished the 8th. Sorghum and sugar cane sirup making was active. Il crops were generally safe from frost damage, and hardy stock was vigorous. The sweet potato harvest ended about the 20th. The woods were generally hare by the 27th.

#### PRESSURE.

The mean sea-level pressure, determined from reports of 8 egular Weather Burean stations in and surrounding the Secon, was 30.17 inches. The highest pressure was 30.75 inches at harlotte, N. C., on the 28th, and in the Section proper, 0.67 inches at Greenville on the same date; the lowest pressure was 29.59 inches at Wilmington, N. C., on the 9th, and in the Section proper, 29.66 inches at Charleston and Coumbia on the 9th and at Greenville on the 19th.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 41 stations, was 51.2°, or 2.5° below the non al. The lighest temperature was 81° at Kingstree on the 16th. The arm periods were from the 5th to the 8th, 16th to 18th, and the to 26th, with daily mean temperatures ranging from 5° 16° above normal. The lowest temperatuse was 16° at herokee (near) on the 29th. The cold periods were generally bout the 3d and from the 12th to 14th, 20th to 23d, and 7th to 30th, with daily mean temperatures anging from 5° 19° below normal. The line of freezing temperatures aduced southward over the upper ecunties on the 12th, reaching the lower coast by the 14th.

#### HUMIDITY.

The mean relative humidity, determined from reports of 8 galar Weather Burean stations in and surrounding the Secon, was as follows: 8 a.m., 80%; noon, 59%; 8 p. m., 68%, he highest percentages occurred along the coast, and the west, over the north-central interior.

#### PRECIPITATION.

The average for the Section, 52 stations reporting, was 45 inches, or 2.11 inches above normal. Precipitation occurred in four periods, and the amounts were rather poorly

distributed. In considerable areas of the eastern, scuthern, and northwestern counties, the totals ranged from 3 to over 8 inches, while in the central belt and on the middle ceast, the amounts ranged downward from 3 to less than 2 inches. The greatest local monthly amount was 8.28 inches at Gaston Shoals; least local monthly amount, 1.87 inches at Columbia. The greatest amount during any 24 hours was 3.20 inches at Crescent (Van Patton Shoals) on October 31-November 1. The average number of rainy days was 40% above norn al. There was no snowfall.

#### WIND.

The prevailing wind was from the northeast. The average lantings germinated well. Wheat sowing began about the iddle of the month. Cotton picking was practically finished 9.4 miles. The highest velocity for any 5-minute period was y the 8th. Sorghum and sugar cane sirup making was active. 37 miles per hour from the north at Charleston on the 26th.

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 8 automatic records, was 192.3 hours, or 62% of the possible amount. The average number of clear days was 16; partly cloudy, 4, and cloudy, 10, as against normals of 17, 6, and 7 days, respectively.

#### RIVER CONDITIONS.

Moderate freshet conditions prevailed in the Broad, Salada, upper Savannah, and upper Pee Dee Rivers early in the month. The Santee River and the Pee Dee River below Cheraw were close to or somewhat above flood stages throughout the month. Little or no damage was reported. In the Santee System, the value of movable property saved by warnings approximated \$15,700.

#### MISCELLANEOUS PHENOMENA (dates).

Killing Frosts or Freezing Temperatures.—12th, 15 stations; 13th, 20; 14th, 2.

Halos-Lunar: Columbia, 15, 16. Solar: Columbia, 2,

4, 18, 29; Santuck, 29.

Fog, dense.—Beaufort (near), 7, 9; Charlesten, 7, 9, 17, 18; Greenville, 1; Mars Bluff, 5; Trenton, 6, 7, 17; Winnsboro, 18.

#### ERRATA.

November, 1931.—Comparative Data, page 43, average rainfall should be 0.54.

MISCELLANEOUS DATA FOR NOVEMBER, 1882.

	, sea	Temp	perati	ire. alır.	tio	ipita- ii, hes.	Win 4-eup A		re	lean lativ	re l	e of pos-
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible sunsi
Asheville, N. C Angusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Greenville, S. C Savannah, Ga Wilmington, N. C.	30, 21 30, 16 30, 13 36, 19 30, 17 30, 18 30, 13	44. 0 53. 2 56. 8 48. 0 51. 8 48. 6 56. 8 54. 3	73 75 74 68 73 70 77 76	16 29 33 23 26 25 32 30	3. 03 2. 47 2. 24 2. 43 1. 87 3. 78 2. 27 6. 51	1.26 1.05 *2.68 *1.28 0.64 1.32 0.84 2.97	8. 9 6. 6 12. 2 10. 3 7. 6 9. 6 11. 1 9. 3	nw. ne. ne. ne. ne. ne.	83 81 79 74 78 77 83 82	54 56 64 55 56 58 66 62	66 67 76 60 65 64 74 76	59 59 66 69 60 64 54 63

3 08 2 97

80 59 68

\*October 31-November 1.

#### Climatological Data for November, 1932.

			( - 1		CIIIIR	LOIOGI	icar 1	Jata	101 1	NOVE	mber,	1982								
			record,	1	Temper:	ture,	iu deg	rees F	ahr.		Precip	oitation.	in inc	hes.	Nun	ber	of da	nys.	tion	
Stations.	Counties.	Elevation, feet.	Length of re-	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date,	Greatest daffy range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Eastern Portion.																				
Beaufort (near)‡‡ Blackviile Churleston Cheruw	Beaufort Barnwell Churleston Chesterlield	21 296 48 144	52 49 62 51	54. 2 54. 7 56. 8 50. 4	-4.7 -0.7 -1.3 -1.6	74 77 74 74	† 8 16 1 16	81 27 33 23	†14 †28 28 30	41 44 24 45	3.73 3.67 2.24 3.56	+1.62 +1.64 +0.10 +1.37	1.68 1.38 2.68 1.52	0 0 0 0	6 10 7 7	13 13 12	7 11 5	10 6 13	e. ne,	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Weuther Bureau. Roland D. Powe.
Conway Darlington Eduquan Ferguson‡‡	Horry	25 175 106 63	44 38 42 47	55. 0 *52. 3  54. 2	+0.4 -0.7 -0.8	77 *75 	16 1 17	24 24 24	30 30 30	44 *40 	3.62 5.42 4.80 4.52	+1.36 +3.31 +2.70 +1.88	0.98 1.62 1.77 1.32	0 0 0	7 6 7 7	22 19 	0 3 	8 8 	ne. 	Perry C. Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1 Florence 2 Garnett Kingstree Marion	Florence	136 136 82 54 68	51 18 15 51 8	52. 4 555. 2 55. 5 53. 4	-1.7 -2.0 +0.6	75 	1 18 16 4	24 b25 24 27	†14 30 30 27	43  50 48	6. 66 5. 52 4. 88 4.27 4. 39	+4.45 +3.31 +2.39 +2.18	1.56 1.90 1.73 1.10 1.30	0 0 0 0	9 5 9 6 8	18 20 12 21 15	4 6 8 1 9	8 4 10 8 6	ne. e. w. e. sw.	11. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Mrs. Ellen Scott. Dr. Charles B. Whilden.
Mars Bluff. Myrtle Beach. Orangeburg Pinopolis** Rimini.	Florence	92 30 264 54 97	9 1 18 86 19	d57.8 54.3	-0.6	<sup>d</sup> 76 78	† 1 16	d30 e29	14 †14	d37 *41	4.56 6.92 2.68	+1. 15	2.00 1.80 1.27	0 0	66 7	19 16	6 6	5 8	n. w.	Rosa R. Davis. Myrtle Beach Invest. Co. U.S. Fisherles Station. Miss E. P. Ravenel. Marion P. Sweatman.
Society [111] Summerville Sumter Wedge Jeld Yennassee	Durlington	192 75 169 249 24	35	1049.2 54.4 51.8 52.6 53.8	-2.9 -1.3 -2.3 -1.5 -2.1	<sup>m</sup> 71 79 75 75 76	24 16 16 16 18	24 24 24 26 26	†14 30 30 30 30 †14	m46 44 45 43 44	5.26 2.82 2.71 2.00 7.24	+3.01 +0.51 +0.65 -0.08 +3.94	1.60 1.09 1.17 1.30 3.53	0 0 0 0	6 5 3 6	18 15 16 20 17	1 3 6 4 2	6	w n. ne. ne.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extremes			53.8	-1.2	81	16	23	30	50	4.85	+2.14	2.68	0	7	17	5	8	ne.	
Western Portion,																				
Alken Anderson Bluirs Cæsars Hend‡‡ Callonn Fulls Cannden	Aiken Anderson Fairfield Greenville Abbeville Kershuw	527 764 293 3118 508 222	40 28 9 34	5. 40 49, 4 40.8 50.2 50.2	-0.4 -3.2 -1.0 -1.9	73 72 65 68 74	† 1 7 † 7 † 5 16	27 24  18 25 21	†28 29 13 29 28	38 38 40 37 45	5. 91 3. 61 4.71 5. 77 2. 06 4. 19	+3,37 +0.92 +2.46 -0.39 +1.85	3.56 1.24 1.93 2.20 1.21 1.65	0000	6 8 4	18 18 15 15	2 0  2 8	12	ne. e.	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Cæsar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Cutuwba Chuppells Cherokee (near) Clemson College Columbia	York Newberry Spartanburg Oconee Richland	562 402 758 850 351	28 5 41	*46. 8 47.5 51.8	-3,5 -2,2	*69 70 73	† 1 16	*16 18 26	29 29 29	*49 37 31	4.11 4.13 6.33 4.80 1.87	+1.66 +1.88 +1.94 -0.11	1.99 1.41 1.94 1.70 0.64	0000	11 5 8 8	18 16 12	 6 1 8		w. ne.	Jumes C. Faris. William Spearman. Spartanburg Water Works Prof. F. H. U. Culbome. U. S. Wealher Bureau.
Crescent. Edgeffeld Ellenton Gaston Shows []. Greenville.	Edgelield †† Aiken Cherokee Greenville	630 550 76 680 1039	20 1 30	48.6	-1.0	70	7	25	28	29	8,20 2,41 6,13 2,28 3,78	+0.07 +5.58 +0.60	3,20 0,89 2,67 3,18 1,32	1	5 6 8 11	16	4	10	ne.	Duke Power Co. U. S. W. B. Aerological Sta A. A. Foreman. Southern Public Utilities. U. S. Weather Burean.
Greenwood Heath Springs Kershaw Landrum Laurens	Kershaw	568 500 1063 589	31 17 18	47. 8 49. 0 51. 2 48. 7 50. 1	-4.1 -2.9 -1.5 -2.2 -0.8	69 70 72 75 73	† 8 1 † 1 7 1	27 21 25 18 25	†18 29 28 29 †14	41 40 47	5.69 2.92 3.91 7.10 3.80	+3.02 +0.72 +1.86 +3.59 +0 90	1.58 0.96 1.32 8.79 1.91	0	5 4 10 8	16 17 18 16	0 2 2 6 5	12 11 6 9	w. w. e. n. n.	M. M. Calbonn, J. Marvin Bowers, John W. Hamel, R. Hartwell Wilds, D.D.S, L. G. Roff.
Little Mountain. Newberry Peizer Sainda Santuck	Newberry Anderson Saluda	850	29 29 31	49. 4 49. 8 <sup>m</sup> 48. 4 49. 5	-4.2 -2.7 -4.8 -1.5	72 73 <sup>m</sup> 70 72	1 1 1 1 1 1 1	20 23 f <sub>25</sub> 22	13		4, 03 3, 38 6, 38 2, 92 3, 62	+1.66 +0.77 +3.58 +0.43 +0.78	1.20 0.78 3.13 0.80 1.09		9 10 5	15	3 6		n. e. 	Miss Elherta Sease. John H. Buxter. Earl J. Frick. B. B. Blease. E. W. Jeter.
Spartauburg Trentou Walhalla Winnsboro Winthrop College !!	Spartanlnirg Edgefield Oconee Fairlield York	1.061	33 39	48. 4 53. 2 48. 1 *49. 4 49. 7	-2.2 -1.6 -2.8 -3.3 -2.1	67 76 76 *72 71		22 24 17 24 23	128 128 29	44 47 *38	5.84 2.99 3.13 2.89 3.81	+2.44 +0.54 -0.11 +0.67 +1.39	1.94 1.02 1.37 0.97 1.16		5 9 6 5	12 20 13 14	3 7 1 2 8	11 9 15	ne. e. ne. ne.	U. S. Weather Bureau. Mrs. S. E. Long. II. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division means and	extremes			. 49, 2	-2.9	76	1	16	1		4.53	+1.95	3.20		1 0	1	4			
Section means and	extremes			51.2	-2.5	81	16	16	29	50	4.45	+2.11	3.20		7	16	4	10	ne.	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, b, c), appearing in the table indicate number of days missing; for example, by represents two days missing, etc. † Also on other dates. † Received too late to be included in means and summaries. \*\* Temperature data are from observed readings of the dry buble; means are computed from observed readings. If the observed readings of these stations are as follows: of Gaston Shoals, Blacksburg; of Whithrop College, Rock Hill; of Ferguson, Eutawyille; of Casar's Head, Greenville; of Beanfort (near), Burton. \*\* Tereipitation is less than 0.01 inch of rain or melted show.

## Daily Precipitation for November, 1932.

Stations.	Drainage.							-						_		Da:	y of	non	ith.										-				-	
	bastus.	1	2	3	4	5	6	7	8	9	10	11	12	18	14	1	5 1	6 1	7 1	ıs	19	20 :	21	22 2	8 2	26 2	5 2	6 2	- 1	8	29	80 8	Tota.	
Kastern Portion.	1			1	İ	1	1	1	1 -	1	1	0	1	1 -	-	-	1	-					1		1.	. 1 .	12	0   2	11	0	29	30	1 5	
leaufort(near)	. Coast	1.68				. 16	. 3	ı	T.	1				M		1		D.		I.K.				. 1	1	1	1	1	1	1			1	
linckville	Const	1.38						. 60	T.	. 08	. 02	2	. 01	1111							92		1	T. T		8	36 .3	30					8.	.73
herny ##	Pee Hee	1.59				. 51	-43	T.		T.										13	12					00	0 1	1 .	12					67
onway III	Poe Hee	.82				90	7.	96		. 16	T.										23 7				1.		9 . 1	3						24
urlington III								1.30		. 02											79 .	05					2	0 7	1					62
Himginen #8	Pee Dee	1. 75					.35	. 93		. 15			·		1		1						- 1	7			1		1					
	Santee							1.77		- 11							- 10		100		7.3			: : : :			. 1.6	2					. 5.	
orence 1	Peo Deo	1.18					60	1 21	.07	. 07										1.	02						. 6	1 .5	1				. 4.	
armett	do	. 27						1.68	.07	20	.03										42						.1.5	61.5	2	111			6.	
	Savannah I	1.78				. 30	. 70	. 03		. 01		T.							1		47						1.9	0					5.	
Ingstreo #h	Bluck1	. 10						4.5													00				. T.	т.	1.3	0 .3	0				. 4.	88
urlan	Pee Dee	. 94		• • • • •		60	. 00	. 42												.1.1	su T				W.		0.	3 6	v					0.7
yrtle Beach	do	. 75					. 55	3.00	.07	. 08	4.									. 1. :	30					0	8 .3	×		11:			4.	
																10.11					79						25	9 .8	5				. 4.	56
popolis	Edisto 1 Cooper						.62	. 29	T.	. 04						11		.,			20					1 700	76	5						92
andard Hit							• • • • •																			1		6					. 2.	68
enety Hill	Suntee 1	. 42					.62	. 90		0.5												.,,,,,,												
mmerville	Pee Dee	.60																		3	75							3 . 0					. 4.5	26
	Ashley	.77				. 46	.18										1111	1		1 . 6	10						. 86						. 5.4	
		:::1:				7	1.17	T.		. 12										6	1						. 24	. 0	8				. 2.8	^2
Western Portion,		.05					. 68	.30		.15																	55						2. 2	11
Ken .		- 1	- 1							*				• • • •	• • • •					1.2	21						. 07	3.5	3				7.2	
	Savaranth 2.	. 99 .	• • • •				. 63			. 49							l		Ů.,	1 5	1			1		7								
nirs       Sar's Hend	Edisto 2. Sayumuh 1 Brond 1. Suluda Sayamuh Wuteree 1. Catawba 1.	93					.04		. 05	. 29		. 04					T.	. 05	0.0	5 1. 1	9				1	i	1.29						5. 9	)1
thom Falls																				8	6				. 1.		. 98						3.6	11
inden ##	Savannah	29 .	].					T.	. 09	. 00		T.	• • • • •	• • • •		• • • •	. 12		2.20	0					. 12	2 1. 10				1		1111	5.7	7
	Savannah	65 .	• • • •	• • • •			. 07	1.02 .		.04	.03								1.	. 4				:	J		1.21						. 2.0	16
hwhu      upperls	Cutuwba 1.	99				- 1	2.1	. 70 .	- 1											.,							. 68						4.1	9
erokee (Hear)	Suluda Brond 1.	80 .					-	25	01 1	.05	. 15 .									. 6	7 .0	8					. 33					1.	4.1	,
													. 02 .	• • • •	• • • •	• • • •	Ť.		. 01						.04	. 02	48				1		4.1	
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Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of hour period, midnight to midnight. \* Precipitation in the near following measurement. Is sparned dates of falls not recorded. T. Trace, or less than 0.01 limit.

### COMPARATIVE DATA FOR NOVEMBER

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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

M Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 12-23 82-900

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

L. XXXV. COLUMBIA, S. C., DECEMBER, 1932. No. 12

#### GENERAL SUMMARY.

Temperatures and precipitation both averaged much ove normal. The notable feature was the sleet and ice rm of the 16th and 17th.

The wintry condition from the 16th to the 21st was preled and succeeded by mild, spring-like weather. Winter eals and truck maintained generally good condition. Wet lup-State retarded the usual land preparations, and wheat unting was not completed until toward January 1. There is considerable hog butchering during the cold period.

#### PRESSURE.

The mean sea-level pressure, determined from reports of 8 gular Weather Bureau stations in and surrounding the Secn., was 30.20 inches. The highest pressure was 30.57 inches at heaville and Charlotte, N. C., on the 22d, and in the Secn. proper, 30.56 inches at Greenville on the same date; the west pressure was 29.61 inches at Asheville, N. C., on the st, and in the Section proper, 29.69 inches at Greenville the same date.

#### TEMPERATURE.

The monthly mean for the Section, determined from rerts of 40 stations, was 49.6°, or 2.9° above normal. The
ghest temperature was 81° at Florence No. 1 on the 25th
d at Garnett on the 27th. The marked warm periods were
on the 1st to the 7th, from the 10th to the 15th, and from
22d to the 31st, inclusive, when the daily mean temperares ranged from 5° to 24° above normal. The lowest temrature was 15° at Winnsboro on the 17th. The cold period
is from the 16th to the 21st, when the daily mean temperares ranged from 5° to 21° below normal.

#### HUMIDITY.

The mean relative humidity, determined from reports of 8 gular Weather Bureau stations in and surrounding the Security was as follows: 8 a.m., 86%; noon, 72%; 8 p. m., 80%, le highest percentages occurred over the northwestern counts, and the lowest, over the eastern and southern districts.

#### PRECIPITATION.

The average for the Section, 58 stations reporting, was 33 inches, or 2.65 inches above normal. Precipitation cerred in two prolonged periods, when the rains were eopious heavy, and the amounts were very badly distributed, assuments of 4 to 20 inches were made in the eentral and rthern counties, with 12 to 20 inches in the higher elevants; in the low country, the amounts ranged downward from the stoless than 1 inch. The greatest local monthly nount was 20.60 inches at Caesar's Head; least local monthly nount, 0.68 inch at Charleston. The greatest amount during any 24 hours was 6.00 inches at Caesar's Head on the 16th and 17th ong the north-central border. The average number of my days was 50% above normal.

A general glaze storm prevailed over most of the Section from about noon on the 16th to about mid-afternoon on the 17th. The maximum depth of mixed sleet, ice and snow was 7.0 inches in upper Cherokee County. A general thaw set in about noon on the 18th, and remains of the mixture were still on the ground at a few up-State stations as late as the 29th.

#### WIND.

The prevailing wind was from the northeast. The average hourly velocity, determined from 8 anemometer records, was 8.5 miles. The highest velocity for any 5-minute period was 34 miles per hour from the north at Charlotte, N. C., on the 31st, and in the Section proper, 28 miles per hour from the southwest at Greenville on the same date.

#### SUNSHINE AND CLOUDINESS.

The average monthly sunshine, determined from 8 automatic records, was 121.3 hours, or 39% of the possible amount. The average number of clear days was 8; partly cloudy, 7, and cloudy, 16, as against normals of 14, 6, and 11 days, respectively.

#### RIVER CONDITIONS.

Freshets were prevalent in the various up-State streams of the Section after the 12th and again after the 25th. The Santec was close to or above flood stages throughout the month. The Pee Dee River at Mars Bluff was in fleed from the 1st to 4th and again after the 18th; at Poston, the Pee Dee was in flood after the 18th. The general stream flow averaged much above normal. Unavoidable losses from fleeds in the Santee River System approximated \$1,400, and the value of movable property saved by warnings has been estimated at about \$14,850. In the Pee Dee River System, the unavoidable losses have been estimated at alcut \$14,855, and the value of movable property saved by warnings approximated \$15,150.

#### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 9, 10; Greenville, 3; Walhalla, 2. Solar: Columbia, 3, 5, 23.

Fog, dense.—Beaufort (near), 18; Catawba. 19; Charleston, 24, 25; Cheraw, 24. 30; Columbia, 18, 19, 24, 27, 28, 30; Conway, 30; Greenville, 7, 12, 18, 19, 20, 24, 26, 28, 20; Kershaw, 27; Landrum, 20, 24, 25, 28, 29, 30, 31; Mars Bluff, 19, 24, 26, 30; Myrtle Beach. 25; Pelzer. 18, 20, 24, 30; Santuck, 18; Spartanburg. 20, 25, 28, 30; Trenton, 24, 29, 30; Walhalla, 18; Winnsboro, 18, 20, 22.

#### MISCELLANEOUS DATA FOR DECEMBER, 1832.

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	ses.	Temp	erati es F		Preci tio inel		Win 4-cup A		re	dean lativ	re	e of pos-
Stations.	Barometer, level.	Mean.	Highest.	Lowest.	Total.	Greatest 24 hours.	Average hourly velocity, miles.	Prevailing direction.	8 a. m.	Noon.	8 p. m.	Percentage sible sunsi
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#### Climatological Data for December, 1932.

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Reserved Control   Reserved   24   50   50   50   50   50   50   50   5	Stations. Counties.	ange 1.	Departure from the normal.  Greatest in 24 hours. Total snowfall.	With precipit on Colon. Clear. Partly cloudy. Cloudy. Prevailing dire of wind.	Observers.
Alken	Beaufort (near)	1 27 18 38 2.3 1 27 18 38 2.4 1 20 18 40 4.1 1 5 22 18 44 1.1 1 5 22 18 44 1.1 1 5 22 18 44 1.1 1 5 22 18 44 1.1 1 6 22 18 43 1.1 1 7 28 21 43 1.1 1 7 28 21 43 1.1 1 7 28 21 43 1.1 2 2 18 42 2.1 2 2 18 42 2.1 2 2 2 2 3 3 42 4.1 3 5 5 28 1 44 5.1 3 6 5 28 1 44 5.1 3 6 6 7 7 28 21 48 1.1 3 6 7 7 28 21 48 1.1 3 7 7 28 21 48 1.1 3 7 7 28 21 48 1.1 4 27 7 17 37 1.1 4 27 7 17 37 1.1 4 27 7 17 37 1.1 4 27 7 17 37 1.1 4 27 7 17 37 1.1 4 27 1 18 42 1.1 4 27 1 18 42 1.1 4 1 27 1 18 42 1.1 4 1 27 1 18 42 1.1 4 1 1 27 1 18 42 1.1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	9 6 9 16 7 5 13 13 sw. 10 10 21 0 10 se. 11 14 4 13 11 3 4 3 14 sw. 7 13 6 12 ne. 8 9 14 8 s. 9 5 18 8 11 10 10 n. 9 7 13 11 nw. 11 11 8 12 w. 9 117 4 10 e. 11 6 9 16 s. 6 9 11 1 1 8 12 w. 9 12 6 13 11 p. 11 1 1 8 12 w. 9 12 1 3 17 n. 9 12 1 0 9 w. 14 15 5 11 sw.	U. S. Weather Bireau. Roband D. Towe.  Perry C. Quattlebanin. D. G. McCall. Win. B. Gillespie. Henry C. Savuge. H. K. Gilbert. Peu Dee Experiment Sta. Maner B. Robert. Mrs. Ellen Scott Dr. Charles B. Whilden. Roya R. Pavis. Myrtle Beach Invest. Co. LUS. Fisheries Statton. Miss E. P. Ravenel. Marion P. Sweatman. E. D. Fisher, Sta. Simitor Water Dept. W. Hampton Rainsey
Division means and extremes	Alken	6 19 17 88 11 11 18 17 82 20 20 21 18 43 6  31 16 18 43 6  31 16 18 43 6  32 17 34 14  3 23 17 40 14  5 23 17 34 16  25 19 17 28 10  25 19 17 28 10  25 19 17 38 10  25 19 17 38 10  25 19 17 38 10  25 19 17 38 10  25 20 17 38 10  26 19 17 38 10  27 18 41 8 77 18  28 17 40 14  29 17 40 14  20 17 40 14  21 17 42 18  21 18 47 18 77 18  22 17 40 18  23 17 17 42 18  24 19 17 40 18  25 20 17 40 18  26 18 17 38  27 18 40 18  28 17 17 42 18  29 18 18 17 38  20 18 18 17 38  21 17 42 18  22 17 42 19  23 17 40 18  24 21 16 43  25 20 17 40 18  27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	1.63   4.6.37   2.11   0.00	1	11. I. Russell. Sarah L. Owens. Cresar's Head-P. Min. Co L. M. Tarker. Henry A. Brown. James C. Faris. William Spearman. Spartanburg Water Works, Prof. F. H. H. Calhoon U. S. Wenther Burean. Duke Power Co. J. S. W. B. Aerological Sta A. A. Foreman. Duke Power Co. J. S. W. B. Aerological Sta A. A. Foreman. Duke Hower Co. J. S. Weather Bureau. M. M. Calhoon J. Hartivell Wilds, D.D. S. L. G. Roff. Miss Elborta Sease. Mrs. K. L. Burton. John H. Baxter. Earl Fless. E. W. Jeter. U. S. Weather Bureau. Mrs. S. E. Long. II. W. Brandt. II. W. Brandt. II. W. Trandt. II. W. Trandt. II. W. Trandt. II. W. Trandt. II. W. Trandt. II. W. Trandt. III. W. Trandt. II. W. Trandt. III. W. Trandt. III. W. Trandt. III. W. Trandt. III. W. Trandt. III. W. Trandt. III. W. Trandt. III. W. Trandt. III. W. Trandt. III. W. Trandt. III. W. Trandt.

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, initial complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate immier of days missing; for example, by represents two days missing, etc. 4 kso on other dates. It Received too late to be included in means and summaries. Temperature data is not such as the device of the dry bubble incurs are computed from observed readings of the dry bubble in seasons are as follows: Of Gaston 30st, Blacelsburg; of Winthrop College, Rock Hill; of Ferguson, Entawyille; of Cesar's Head, Greenville; of Beaufort (near), Burton. The Precipitation is less than 0.01 Inch of rath or melted show.

Daily Precipitation for December, 1932.

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Except as otherwise indicated, observations are generally made late in the afternoon, near sanset, and precipitation recorded is for the 24 hours ending at the time of observation. III Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the 24 hour period, addinght to midnight. \* Precipitation included in the next following measurement. Is eparate dates of falls not recorded. T. Trace, or less than 0.01 included.

#### COMPARATIVE DATA FOR DECEMBER.

	Te	mperatu	re.	Precip	itation.	Averag	e nnm days.	ber of	iling direc		Te	mperatn	re.	Precip	itution.	Averag	e num days.	ber of	direction on
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Reference letters (\*, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

% Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 1-26-33-900

Vol. XXXV

#### CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

COLUMBIA, S. C., YEAR, 1932

#### GENERAL SUMMARY.

Temperatures and precipitation averaged considerably above normal for the year.

The warmest winter since 1889-1890, with an average temperature of 7.5° above normal, was followed by an unusually cold spring, a hot summer, a cool September and November, and a warm December. January and July were the warmest months of the names on record, and maximum temperature records were broken at many stations. On the other hand, the March minimum temperature records were broken at a considerable number of stations. In precipitation, marked plus departures occurred in January, June, October, November, and December, and notable deficiencies occurred in April and July. Four persons were killed by a tornado in March, and 34 were injured. Seven persons were killed by lightning and in washouts in June, July, and August. The aggregate damage by storm stress and floods approximated \$544,150.

While the winter was mild, fruit trees remained relatively dormant, but the unseasonably cold weather in March caused considerable damage to quickening buds. The woods were generally green by April 15. All crops made practically normal advance as the season progressed. Winter cereal harvests extended from about May 15 to June 15. The first cotton bloom was noted at Orangeburg on June 8, or 3 days earlier than normal; the first open boll was picked near Red Store, upper Calhoun County, on July 31, or 3 days later than normal, and the first bale was ginned near Elloree on August 11, or on March 6. normal date. Corn. tobacco, tree fruits, melons, strawberries. sweet potatoes, truck, and lesser crops appeared on market generally in season. Practically all late crops were safe from frost before the freezes in mid-November. The woods were generally bare by November 27.

Spring freezing temperatures were general as late as on October 7 and 28 and were general from November 12 to The average latest spring killing frost date for 1932 hour from the southwest at Greenville on March 22. was March 20, or 2 days earlier than normal; the average earliest autumnal killing frost date was November 14, or 4 days later than normal. The growing season was 239 days in length, or 6 days longer than normal.

The mean annual temperature was 64.0°, or 1.0° above normal. The warmest month was July, with a mean of 82.6°; the coolest month was December, with a mean of 49 6°. highest annual mean at any station was 68.1° at Charleston; lowest annual mean, 53.3° at Caesar's Head. The highest annual temperature was 108° at Society Hill on July 22; lowest annual temperature, 5° above zero at Caesar's Head on March 10.

Seasonal temperatures, with departures from the 46-year normals: Winter (1931-32),  $54.1^{\circ}$ ,  $+7.5^{\circ}$ ; spring,  $60.9^{\circ}$ ,  $-1.7^{\circ}$ ; summer,  $79.7^{\circ}$ ,  $+1.0^{\circ}$ ; autumn,  $62.7^{\circ}$ ,  $-1.2^{\circ}$ .

The average annual precipitation was 54.08 inches, or No. 13 6.08 inches above normal. The greatest annual amount at any station was 101.56 inches at Caesar's Head; least annual amount, 39.38 inches at Orangeburg. The greatest monthly amount at any station was 20.00 inches at Caesar's Head in December; least monthly amount, 0.23 inch at Summerville in April. The average number of rainy days was 102; greatest number at any station, 138 at Greenville; least number, 67 at Edgefield. Average annual snowfall, 0.9 inch. Measurable snowfall occurred on March 9, when many March snowfall records were broken. Snow flurries occurred on March 12, 13, and 14, and on December 16-17 along the north-central border. A general glaze storm occurred on December 16-17, and the greatest depth of mixed ice, sleet, and snow was 7.0 inches in upper Cherokee County.

During the growing season, March to September, inclusive, the total precipitation was 27.64 inches, or 3.43 inches below normal, as compared with -15.48 inches in 1925, determined from 1932 normal.

Seasonal precipitation, with departures from the 46-year normals: Winter (1931-32), 15.81 inches, +4.35 inches; spring, 9.07 inches, -1.56 inches; summer, 15.35 inches, -0.99 inches; autumn, 14.66 inches, +5.16 inches.

Freshets occurred in the Pee Dee River System in January, March, October, and December, and in the Santee River System, in January, March, October, November, and Decem-The losses in the Pee Dee System approximated \$27,545, and the value of movable property saved by warnings has been estimated at \$78,900. In the Santce System, about \$14,105 in property was lost, and the value of movable preperty saved by warnings approximated \$106,600.

The average annual atmospheric pressure was 20.05 inches. The highest pressure was 30.72 inches at Due West on January 1; the lowest pressure was 28.78 inches at Charleston

The average annual sunshine was 63% of the possible amount. The average annual number of clear days was 174; partly cloudy, 86, and cloudy, 106, as against normals of 174, 96, and 95 days, respectively

The average annual relative humidity at 8 a.m., was 80%: noon, 57%, and 8 p. m., 68%.

The prevailing wind was from the southwest and west. March 16. Autumnal freezes began at a few up-State stations. The average annual wind velocity was 8.4 miles per hour. The highest velocity for any 5-minute period was 49 miles per

#### WEATHER BY MONTHS.

January. - The winter continued with the warmest January of record, and many maximum temperature records were broken. Precipitation was much above normal and badly distributed. Flood data .- Santee River System: losses, about \$8,525; value of property saved by warnings, about \$42,100. Pee Dee System: losses approximated \$4,600; value of property saved, about \$30,000.

February. - The winter was the warmest since 1889-1890, (CONTINUED ON PAGE 52.)

51.6

#### Climatological Data for the Year 1932.

Blackville   Barnwell   296   49   66.2   107   Iuly 22   21   Mar. 10   49   49.42   10.69   Aug.   0.53   Apr.   0   Charleston   Charleston   Charleston   48   60   68.1   101   July 22   28   Mar. 10   62   44.84   7.18   Sept.   0.31   Apr.   0   Cheraw   Chesterfield   144   51   62.0   107   July 22   18   Mar. 10   51   51.11   7.75   Oct.   2.54   Aug.   2   Conway   Horry   25   36   65.9   101   July 15†   21   Mar. 10   44   53.89   9.86   June   1.07   Apr.   Tolerington   Darlington   175   33   64.5   105   July 22   19   Mar. 10   38   45.03   6.33   Oct.   2.66   Aug.   1   Ellingham   Florence   106   44   65.5   106   July 21†   24   Mar. 10   42   64.53   7.87   June   1.46   Apr.   1   Ellingham   Florence   136   51   64.5   104   July 15   21   Meh. 10   51   65.18   9.76   July 1.88   Apr.   2   Florence   176   Florence   136   104   July 15   21   Meh. 10   51   65.98   9.76   July 1.88   Apr.   2   Florence   176   Apr.   17   Apr.   17   Apr.   17   Apr.   17   Apr.   17   Apr.   17   Apr.   17   Apr.   17   Apr.   17   Apr.   17   Apr.   20   10   Apr.   18   Apr.   2   Apr.	F. 81 107 0 112 5 85 7 107 5 94 7 101 86	T. 1.5. T. 1.5	Number rainy	mber clear days.	Number partiy cloudy days. Number cloudy days.	
EASTERN PORTION.  Beaufort (near) Beaufort 221 24	Aujer 190mnN -2 107 0 112 .5 85 -5 94 -7 101 86	T. 0.2 0 2.5 T. 1.5	Number rainy	176 141	num ber cloudy cloudy cloudy cloudy cloudy cloudy cloudy cloudy cloud cl	Prevailing w
Beaufort (near)   Beaufort   21   24     104   July 15t   25   Mar. 11   52   46. 10   13. 33   June   0.58   Apr. To Blackville   Barniwell.   296   49   66.2   107   July 22   21   Mar. 10   49   49.2   10.69   Aug. 0.53   Apr. 0   Charleston   Charleston   48   60   68.1   101   July 22   28   Mar. 10   62   44. 84   7.18   Sept. 0.53   Apr. 0   Cheraw   Chesterfield   144   51   62.0   107   July 22   18   Mar. 10   51   51. 11   7.75   Cet. 2.54   Aug. 2   Conway   Horry   25   36   65.9   101   July 15t   21   Mar. 10   44   53.89   9.86   June   1.07   Apr. To Britisham   Plorence   176   106   106   107	0.2 107 0 112 0.5 85 7. 107 5 94 1. 101 7. 86	0.2 0 2.5 T.	107 112	141	161 64	
Blackville   Barniwell   296   49   66.2   107   July 22   21   Mar. 10   49   49.42   10.69   Aug. 0.53   Apr. 0   Charleston   Charleston   Charleston   48   60   68.1   101   July 22   28   Mar. 10   62   44.84   7.18   Sept. 0.31   Apr. 0   Cheraw   Chesterfield   144   51   62.0   107   July 22   18   Mar. 10   51   51.11   7.75   Cet. 2.54   Aug. 2   Conway   Horry   25   36   65.9   101   July 15†   21   Mar. 10   44   53.89   9.86   June   1.07   Apr. T   Darlington   Darlington   175   33   64.5   105   July 22   19   Mar. 10   44   53.89   9.86   30   Cet. 2.66   Aug. 1   Ellingham   Florence   16   65.5   106   July 21†   24   Mar. 10   47   54.58   7.57   June   1.46   Apr. 1   47   Apr. 2	0.2 107 0 112 0.5 85 7. 107 5 94 1. 101 7. 86	0.2 0 2.5 T.	107 112	141	161 64	
Darlington         Darlington         175         33         64.5         105         July 22         19         Mar. 10         38         45.0         6.93         Oct.         2.06         Aug. 1           Editingham         Florence         106         108         10         24         44         54.53         7.87         June 1.46         Apr. 2           Ferguson         Orangeburg         63         44         65.5         106         July 21*         24         Mar. 10*         47         52.02         7.88         June 0.79         Apr. 2           Florence         Florence         136         51         64.5         104         July 1.5         21         Mch. 10         51         56.18         9.68         July 1.88         Apr. 2           Florence         Florence         136         51         64.5         104         July 1.5         21         Mch. 10         51         56.18         9.68         July 1.88         Apr. 2           Florence         Florence         136         51         64.5         104         July 1.5         21         Mch. 10         51         52.92         8.14         July 1.71         Apr. 2	.5 94 101 2. 86	1.5			116 134	
Florence 2 Florence 136	.1 105	T. T.	107 94 101 86	249 194 	4 113 46 126 67 112	6
Kingstree Williamsburg 54 51 66.9 107 July 22 23 Mar. 15 51 47.48 7.43 June 1.01 Apr. 1	.1 84 0 114 92	2.1 2.1 0 T.	105 84 114 92 113	180 217 245 220	107 79 83 66 27 94 105 41	w.
Mars Bluff.         Florence         92           9         48.83         6.82         Oct. 2.06         Apr. 1           Myrtle Beach.         Horry.         30         1         65.2 <sup>1</sup> 98         Sept. 2         22         Mch. 10         1         51.06         10.95         June 0.51         Apr. 1           Orangeburg.         Orangeburg         264         17         66.5         102         July 21†         24         Mch. 10         17         39.38         8.40         June 0.33         July 21*           Pinopolis**         Berkeley.         54         48         84         July 21†         24         Mch. 10         86         49.54         12.25         June 0.95         July 21*	. 0 107 0 113 0 94	1.0 0 0 0	107 113 94	238 148	59 69 109 109	9 e. 9 sw.
Society Hill   Darlington   192   42   63.0   108   July 22   19   Mar. 10†   24   49.98   9.42   0ct. 1.58   Aug. 3   Apr. 1.	.0 86 0 94 .0 103	1.1 3.0 0 1.0 3.0 T.	94 103 88	209 189 185 225	61 96 41 136 76 105 79 62 51 105	e. 5 nen. 2 w.
1emassee		T. 0.8		190	51 105 83 93	
WESTERN PORTION.						1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 81 124 89	1.0 T. T.	81 124 89	219 196	38 109 24 146	
Calhoun Falls	.3 91 .5 116	0.5 0.3 3.5 1.5	103 91 116 105		69 166 136 93	3 s.
Cherokce (near) Spartanburg 758 5 60.3 100 July 21 15 Mch. 10 5 62.96 10.78 Oct. 1.50 Sept. T Clemson College Oconee 850 38 62.1 100 July 22 16 Mch. 10 41 69.01 14.00 Dec. 1.23 Sept. T	. 83 . 104	1. 4 T. T. 3. 5	120 83 104 116	241	53 72 133 107	w.
Edgefield         550         20         47.78         7.36         Aug.         1.01         Sept.         1           Ellenton         Aiken         76         1         45.77         6.13         Nov.         0.70         Apr.	0 67	T. 1.0 0 4.0	106 67 86 112			
Greenwood Greenwood 671 49 62.0 100 July 167 18 Mch. 10 49 55.21 7,12 Dec. 1.90 Sept. 1 Heath Springs Lancaster 568 31 62.1 101 July 147 15 Mch. 10 31 49.62 8.45 Oct. 2.21 June 3	.0 118	T 1.0 3.0 2.5	138 118 87 92	138 175 148 182	102 126 0 191 53 165 37 197	1 w.
Laurens Laurens 589 15 63.5 4106 July 21 15 Meh. 10 15 51. 14 8. 19 Oct. 1. 22 Aug. T Little Mountain Newberry 711 40 63.3 106 July 15 15 Meh. 10 41 54. 11 8. 52 Oct. 1. 38 Sept. 3	119	T. T 3.5 1.5	116 113 96 113	201 198 207 157	92 79 105 69 71 88 110 99	3 w. 8 w
Saluda         536         31         "104         July 12         19         Meh. 10         31         50.90         6.41         Oct.         1.85         Apr.         2           Santuck         Union         512         40         62.7         106         July         21         16         Meh. 10         40         55.29         7.94         Dec. 2.55         May         0           Spartanburg         Spartanburg         875         56         61.8         101         July 21         17         Meh. 10         54         48.73         6.87         Oct.         1.51         Apr.         1	2. 0 88 0. 5 111 Г. 104	T 2.0 0.5 T.	115 88 111 104	172 120	117 77 89 157	
Walhalla Oconee 1061 31 60.5 102 July 21+ 13 Mch. 10 33 77,13 13,70 Dec. 1.71 July 1 Winnsboro Fairfield 545 39 63.7 105 July 21+ 15 Dec. 17 39 56.88 6,65 Dec. 2.10 Sept. 2 Winthrop College ft. York 690 33 63.0 105 July 22 14 Mch. 10 33 51.36 8.30 Oct. 2.08 Sept. 1	r. 136	2.5 T. 2.2 1.0	88 136 113 92	137 193 114 155	132 97 80 93 150 102 140 71	3 sw. 2 ne.
		1.0 0.9	104	164 174	87 115 86 106	

†On other dates also.

\*\* Temperature data are from observed readings of the dry bulb; means are computed from observed readings.

†! Postoffice addresses of these stations are as follows: Of Gaston Shoals, Blacksburg; of Winthrop College, Rock Hill.

Monthly and a mun	d Precipitation	tor the Year	1932, with	Departures from	the Normal.
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	Monthly and Annual Precipitation										the '	Year	1933	c, wii	h Do	part	ros	hon	the l	Norm	ы1.					
	Jan	mary.	Fol	ruary	. М	arch.	Aı	orll.	3	lay.	Jı	me.	Jı	ıly.	Λu	çust.	Septe	unber.	Oct	ober.	Nove	mber.	Dece	mber.	Anz	mal.
Stations.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
STERN PORTION.																										
fort (near) cvillelestou	4. 57	+1.43	3.62	-0.48	3.61	0.00	2,75	-0.33	3.64	+0.07	6. 11	+0.93	4.84	-1.18	2.54	-3.66	3. 34	-0.41	7.75	+4.86	3.5€	+1.37	4. 78	+1.50	51.11	- 0.52 + 2.80 - 0.38 + 4.10
rayugtongham	3.03 3.57 3.23 4.18	-0.56 $+0.62$ $-0.30$ $+0.44$	3, 85 2, 61 3, 44 4, 12	-0.28 -1.16 -1.20 +0.31	2.78 2.80 3.29 2.93	-0.81 -0.29 -0.52 -0.58	1.07 2.35 1.46 0.79	-2.00 -0.92 -1.86 -2.27	4, 30 2, 73 4, 02 3, 95	+0.64 $-0.92$ $+0.33$ $-0.13$	9.86 2.67 7.87 7.36	+4.59 $-2.85$ $+2.08$ $+1.81$	4 81 5.14 6.14 1.37	-2.30 $-0.37$ $+0.03$ $-5.51$	6. 77 2. 06 6. 61 6. 71	+0.16 $-2.92$ $+0.90$ $-0.12$	5.21 3.09 2.92 6.65	+0.14 -1.34 -1.66 +2.43	7. 17 6. 93 6. 81 5. 24	+4.00 +3.94 +3.28 +2.32	8.62 5.42 4.80 4.52	+1.86 +3.81 +2.70 +2.38	1.97 5.66 4.44 4.20	-1.87 +2.71 +1.19 +1.11	58.89 45.08 54.58 52.02	+ 8.57 - 0.19 + 4.97 + 2.19
nce 1euce 2ettstree	3.28 1.80 3.32 3.20	+0.23 +0.31 -1.28 +0.13	2. 81 2. 79 1. 09 4. 86 2. 69	-1.31 -1.33 -2.86 +0.60	3.56 3.80 3.10 2.29 2.12	+0.22 +0.46 -0.94 -1.20	1.88 1.71 0.44 1.01 1.77	-1. 12 -1. 29 -8. 15 -1. 84	4.25 3.88 3.56 3.65 4.38	+0.27 -0.10 -0.72 +0.30	6.27 4.94 6.83 7.43 5.37	+0.81 -0.52 +0.31 +2.14	9.76 8.14 5.16 4.65 4.50	+3.92 +2.30 -2.08 -1.87	3.91 3.29 6.21 2.97 4.16	-1.28 -1.90 +0.97 -3.15	2.71 3.30 3.08 4.56 2.08	-1.60 -1.01 -3.21 +0.21	6.51 7.28 4.46 6.06 6.28	+3.47 +4.24 +2.12 +3.84	6. 66 5. 52 4. 88 4.27 4. 39	+4. 45 +3. 81 +2. 89 +2. 18	4.66 4.99 1.03 2.91 5.26	+1.66 +1.99 -2.60 -0.18	56.18 52.92 41.64 47.48 46.15	+10.72 + 6.46 -11.05 + 0.66
Bluffle Beachgeburgpolis	3. 19 2. 14 2. 98 2. 33 4. 44	-0.63 -0.58 +0.82	2, 82 2, 92 5, 89 3, 35 5, 51	+2.15 -0.19 +1.62	2.56 1.76 1.86 1.56 2.99	-1.80 -2.07 -0.40	2.06 0.51 0.61 1.27 0.85	-2.26 -1.76 -2.27	3. 38 2. 62 1. 96 6. 18 1. 85	-1,52 +2,40 -2,44	5. 28 10.95 8. 40 12. 25 6. 84	+3.52 +6.48 +2.08	5.81 5.08 0.33 0.95 2.33	-6.31 -5.89 -4.77	4.53 6.16 3.94 *5.76 10.01	0.63 1.03 +5.17	2.76 4.88 3.95 4.89 6.32	-0.57 +0.20 +0.99	6.82 5.66 3.67 5.93 3.95	+1.56 +3.02 +1.72	4.56 6.92 2.68 *3.87 4.26	+1.15 +1.44 +2.38	5, 06 1, 46 8, 11 1, 20 2, 80	-1.76 -0.34	48.88 51.06 89.28 49.54 52.15	- 5.84 + 0.26 + 4.56
ty Hill nerville er efield ssee	3.88 2.90 3.06 3.45	+0.69 -0.24 -0.50 -0.14 -0.08	2.84 2.80 3.85 4.15	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2, 60 2, 08 3, 43 3, 00	-0.84 $-1.28$ $-0.02$ $-0.47$	2.69 - 0.28 - 1.98 - 1.76 -	-0.78 -3.25 -1.14 -1.36	3, 55 8, 48 3, 85 4, 93	+0.11	3 55 9.90 8.63 6.51	-1.79 $+4.22$ $+4.06$ $+1.79$	5.89 4.27 3.62	-0.50 $-2.75$ $-1.47$ $-0.91$	1.58 7.59 8.63 7.45	-4.05 $+1.00$ $+3.26$ $+1.52$	2.16 6.64 3.77 3.24	-2.20 $+1.44$ $-0.46$ $-0.94$	9, 42 5, 85 5, 66 4, 87	+6.40	5,26 2,82 2,71 2,00	+3.01	7.06 1.21 4.62 4.00	+8.77 -2.22 +0.82 +0.78	49, 95 54, 27 53, 21 49, 08	+ 1.75 + 3.68 + 8.27 + 2.73 + 0.64
ision means and epartures.		-0.11						- 4										-0.58							1	+ 1.69
STERN PORTION.																										
	3.02		3.00		9. 91		0.40		4.00		0.00		4.17		14, 70		5, 10		14.01	*****	0.11		20,00	*****	10190	
uu Falls eu rba pells	5. 58 5. 58 6. 58 6. 55	+1.60 +2.08 +2.88 +2.91	4.88 3.50 2.65 4.25	-0.18 -0.42 -1.87 +0.07	3.35 4 94 3.28 3.50	-1.51 $+1.18$ $-1.00$ $-0.60$	2.08 - 1.55 - 3.34 - 2.03 -	-1.38 -1.63 +0.27 -1.07	3.63 2.64 2.98 2.07	-0.29 $-0.65$ $-0.63$ $-1.48$	7.14 6.76 2.83 6.64	+3.28 +2.06 -1.41 +2.92	2.71 3.57 3.59 1.77	-2,53 -1,80 -2,22 -3,45	7.25 7.16 6.51 3.13	+2.83 +1.87 +1.70 -1.48	3.27 2.93 2.04 0.69	-0.59 $-1.03$ $-1.72$ $-2.99$	8.67 7.08 7.83 6.28	+5.66 +4.28 +4.06 +3.56	2.06 4.19 4.11 4.13	-0.89 +1.85 +1.66 +1.88	11. 10 6. 89 6. 41 6. 92	+6.60 +3.39 +2.46 +2.58	61.72 56.74 51.65 47.91	+13.10 +11.18 + 4.18 + 2.85
kee(near) ou College mbia	6, 77 7, 74 3, 78	+2.78 +0.31	3. 16 4. 65 4. 13	-0.73 +0.23	6, 29 5, 68 3, 03	+0.74 -0.38	1.51 . 3.13 -	-0.70	4.37 3.08 2.42 3.23	-0.94 -0.67	7.80 6.50 5.56 5.99	+1.59 +1.39	1, 87 3, 08 3, 39 1,86	-2.68 -1.96	5. 83 6. 00 7. 82 5. 43	+1.19 +1.85	1.50 1.23 2.46 4.16		10, 78 9, 12 6, 85 9, 89	+5.86 +3.79	6, 33 4, 86 1, 87 8, 20	+1.94 -0.11	7. 25 14. 00 4. 53 13. 52	+8.74 +1.50	62.96 69.61 46.74 70.86	+ 15.59 + 4.15
teld ton n Shoals ville wood	6. 18 5. 89 7. 18 6. 82 6. 60	+1.81 +2.94 +1.95 +2.69	4, 58 5, 73 3, 00 3, 74 4, 61	+0.51 -1.59 -1.63 -0.12	3.31 3.73 5.77 5.41 2.95	-0.78 +0.97 +0.26 -1.34	3. 08 - 0. 70 . 1. 75 - 2. 68 - 2. 88 -	-0.34 -1.68 -1.04 -0.28	3. 32 3. 62 2. 76 2. 02 2. 11	-0.12 -0.91 -2.01 -1.66	4. 11 5. 60 5. 10 4. 96 6. 48	+0.45 +0.66 +0.41 +2.55								+1.60 +6.54 +9.56 +8.74	2.41 €.13 8.28 3.78 5.69	+0.07 +5.53 +0.60 +8.02	5.76 2.98 6.89 10.86 7.19	+2.49 +2.61 +6.02 +2.75	47. 78 45. 77 56. 75 61. 89 55. 21	+ 8.43 + 8.13 + 8.71 + 7.72
Springs aw um ns Mountain	5. 05 5. 22 9. 02 4. 45 6. 52	+1.56 +1.54 +3.72 +0.04 +2.94	3.03 3.38 3.04 4.05 4.88	-0.89 -0.49 -1.62 -0.86 +0.44	3.87 2.57 6.28 4.61 2.52	+0.16 -1.42 +0.95 +0.20 -1.41	3.93 + 3.10 - 3.82 - 2.81 - 3.19 -	-0.62 -0.63 -0.73 -1.05 -0.09	3. 88 3. 14 5. 70 3. 07 2. 61	+0.63 -0.39 +0.11 -0.87 -0.60	2.21 4.23 4.75 4.56 5.29	-3.00 -0.65 -0.08 +0.28 +1.09	4.77 4.89 3.62 2.47 €.18	-0.24 -0.67 -3.22 -2.70 +1.18	3. 01 1. 94 9. 00 1. 22 2. 73	-2.33 -2.41 +4.08 -3.25 -2.41	3. 20 3. 25 3. 23 4. 16 1. 38	-0.20 -0.56 -1.50 +0.03 -2.06	8.45 7.92 7.65 8.19 8.52	+5.77 +5.12 +3.45 +4.85 +5.59	2.92 8.91 7.10 8.80 4.03	+0.72 +1.86 +3.89 +0.90 +1.66	5. 3f 5. 7( 8. 62 7. 7f 6. 26	+1.71 +2.65 +8.81 +3.48 +2.79	49.62 49.25 71.88 51.14 54.11	+ 4.51 + 8.95 +12.56 + 1.00 + 9.12
creek erry	5.49 6.90 5.53	+1.51 +2.25 +1.64	4. 01 3. 65 5, 35		3. 60 3. 03 4.29	-0.38 -1.80 -0.09	2. 25 - 2. 78 - 1. 85 -	-1.00 -1.14 -1.28	2. 02 2. 68 1. 92		3. 65 8. 68 6. 20	-0.51 +4.57 +1.60	2. 52 - 2. 45 - 4. 14 -	-2, 19 -2, 90 -0, 98	5. 04 - 2. 99 - 5. 28 -		- 1									+ 1.94 +10.18 + 4.28 + 7.65
nburg on  lla boro rop College	6.50 6.20 7.95 6.32 4.27	+2.53 +2.58 +2.95 +2.77 +0.64	3, 25 5, 58 5, 24 3, 83 3, 00	-1.46 $+0.65$ $-0.18$ $-0.50$ $-1.20$	3. 33 5. 63 8. 32 3. 98 5. 39	-1.52 +1.23 +2.21 -0.21 +1.33	1.51 - 1.90 - 2.94 - 2.99 + 2.71 -	-1.87 -1.51 -1.73 -0.01 -0.48	2. 52 4. 00 5. 09 2. 62 2. 81	-1.51 +0.74 +0.90 -0.90 -1.26	4. 69 - 6, 72 - 5. 16 - 5. 96 - 4. 84 -	+0.33 +2.32 +0.54 +1.39 +0.12	1.55 5.53 1.71 4.48	-3, 19 -2,21 -4,25 -0,69 +0,40	4, 81 8, 89 6, 50 3, 51 2, 09											- 0,02 +10.62 +18.31 + 5.17 + 4.37
partures.	6.22		4.05	-0.51	4.31	-0.02	2.57	0.85	2.99	-0.69	5.40 -	F1.04	3.26	-2.04	4.90 -	-0,07	2.59	-1.13	7.82	-4.86	4.53	+1.95	8.33	+4.19	56.97	+ 8.96
The departures		. 41		1		- 1	1		-	1	-			- 1	. 4	- 1	1	- 4	1		1		1			

The departures from the normal precipitation are computed only for such stations as have ten or more years of record.

\*Interpolated.

Monthly and Annual Mean Temperatures for the Year 1982, with Departures from the Normal.

				1		.			Mo		Jur		Ju	v	Aug	nst. S	Senter	nber	Octob	er.	vover	nber	ecen	ber.	Annu	al,
	Janu	ary.	Febr	uary.	Mar	ch.	Apı	11.	Ma		341	ie.	- J	.,	Aug.		1				. 1		. 1		. T	\
Stations.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature	Departure.	Temperature	Departure.
EASTERN PORTION. Beaufort (near) Blackville Charleston Cheraw	59.8 55.8 60.0 53.6	+8.3 +8.2 +10.1 +9.8	60.1 54.3 60.0 53.2	+7.2 +5.2 +7.6 +7.5	55. 5 51. 8 55. 4 50. 6	-5.7 -2.0	64.8 66.2	+0.3	71. 3 72. 6	-1.7 -0.1 -0.6	79.8 79.0 78.4	+1.2 $+0.1$ $+1.2$	83. 8 83. 4	+3.6	80. 7 79. 2	-0.3 +0.7	76.4 73.0	-2.3 -0.9 -0.2 -0.6	69. 2 63. 3	+1.4	56.8 50.4	-1.3 -1.6	56.6 48.2	+4.9 +3.5	66. 2 68. 1 62. 0	+1.5 +2.1 +0.1 +2.0
Conway Darlington Ferguson Florence 1 Garnett	58. 2 55. 4 56. 0 55. 2	+10 0 +9.9 +8.9 +9.6	56.6 53.8 55.1 55.2	+7.5 +7.2 +6.7 +8.0 +5.5	53.8 *51.6 52.8 52.7 **51.8	-2.7 -3.7 -3.2 -3.0 -7.0	63.0 62.2 63.6 63.2	$ \begin{array}{r} -0.1 \\ 0.0 \\ +1.1 \\ +0.3 \end{array} $	70. 4 69. 6 70.2 69. 0	-0.3 -1.1 -0.9 -3.0	78.1 78.0 78.7 77.9 79.9	+1.0 +1.0 +1.4 -0.7 +1.1	82.5 83.6 83.8 82.2 *84.5	+2.6 +3.7 +4.2 +0.9 +3.4	79.1 79.2 80.2 78.4 181.3	-0.2 $+0.4$ $+1.7$ $+1.8$ $+0.8$	78.7 78.4 73.5 72.6 475.4	-1.3 -1.2 -2.6 -1.8	65. 9 65. 0 65. 1 64. 1 66. 8	+1.0 +1.3 +0.9 -0.1 -0.7	55.0 *52.8 54.2 52.4 555.2	-0.7 -0.8 -1.7 -2.0	54.0 49.9 52.8 51.0 56.3	+4.2 +4.6 +5.2 +4.8	64.5 (5.5 64.5	+1.7 +1.9 +0.9
Kingstree	58.6 56.9 56.6 58.0	+10.6	57. 2 56. 9 56. 0	+8.3	54. 6 54. 2 52. 6 55. 9	-2.2 -1.2	64.6 63.2 62.4 65.0	+1.1	71.4 70.9 68.8 71.4	-0, 2  +0. 7	79.8 79.0 76.8 78.8	+1.8	84.2 183.0 80.2 83.8 d78.8	+3.6	80, 6 78, 1 78, 2 80, 2	+0.5	75.4 72.8 574.2 74.4	+0.5 -1.4	66.8 64.2 66.8 65.8 62.4	0.0 -1.8	58. 4 58. 4 657. 8 854. 8	-0.6	52.0 52.6 52.6 53.8 51.3	+5.0 +3.3	65. 4 65. 2 66. 5	+2.0
Society Hill Summerville Sumter Wedgefield Yemassee	152.6 57.0 56.5 56.9	+9.5 +7.6 +9.9 +10.7	552.2 56.6 55.8 55.4	+6.6 +6.4 +6.6 +9.1	49, 8 e52.9 53.5 53.8 55.8	-4.5 -5.1 -0.7 -0.4 -2.1	60.8 64.7 63.8 63.2 65.2	-1.0 +0.8 +i.1 +0.5 +1.0	*69.4 *71.6 *70.8 *70.3 *71.1	-1.0 -0.1 -0.5 -0.9	78.5 79.0 78.4 77.6 79.0	+1.5 $+1.5$ $-1.0$ $+0.3$ $+0.8$	83. 2 83. 7 82. 5 82. 6 83. 8	+3.6 +3.8 +2.8 +3.9 +3.9	°79. 4 80. 1 79. 8 78. 8 80. 0	+1.0 +0.5 +0.9 +0.6 +0.1	°72.6 74.6 73.4 73.8 74.5	-1.1 -0.9 -1.0 -0.5 -1.3	62.0 67.2 65.4 65.1 65.4	-0.6 $+1.4$ $+1.4$ $+1.1$ $-0.3$	54. 4 51. 8 52. 6 53. 8	-2.9 -1.3 -2.3 -1.5 -2.1	645.8 54.7 50.8 51.8 56.2	+0.7 +5.1 +8.0 +4.0 +7.2	66.4 65.1 65.2 66.9	+1.6 +1.8 +2.0 +2.0
Division means and departures.	56.8	+8.9	56.2	+6.8	53. 2	<b>-3.</b> 2	63.8	+0.4	70.5	-1.0	78.4	+0.0	83.3	+3.	79.6	+0.2	74.1	-1.2	65. 5	+0.5	53.8	-1.2	53.1	+4.8	65.7	+1.0
WESTERN PORTION. Aiken Anderson Cresar's Head Calhom Falls Camden	51.8 44.4 53.6	+11.1	58.0 44.4 55.2	+8.7	50. 4 39. 7 52. 6	-0.1	52.0 63.6	+2.4	58. 2 70. 8	+1.7	66.0 80.0 78.9	+2.7 +1.1	69. 8 84. 4 83. 6	+4.	67.1 80.0 80.0	+1.8	62.6 74.1 73.4	+1.1 -1.6 -0.5 -0.9	53, 4 63, 8 64, 4	+0.9 +1.5	40.5 50.5	-1.6 -1.9	41.8 48.4 48.6	+8.8 +0.5	63.8 64.7 63.6	+2.9
Cherokee (near)	49.6 52.0 56.0 52.4 51.4	+9.1 +10.0 +8.6 +11.1	50.8 55.2 55.2 55.2 52.6	+10.6 +7.6 +6.9 +9.3	48.1 50.9 52.6 50.0 49.6	-1.6 -2.6 -4 0 -0.3	60. 2 60. 4 63. 6 60. 6 61. 8	+0.8 +0.8 -0.8 +2.7	65.6 66.4 70.6 68.4 68.0	-2. 1 -1. 8 -1. 0 +0. 8	74.3 76.0 78.7	+0.5 +0.6 +2.	79.6 80.8 83.6	+2. +2. +4.	76.8 77.8 7 80.0	+0.4 +0.4	70. 4 72. 4 74. 0	-0.5 -0.5 +1.4	60.6 65.0 62.4	-1.2 + 0.7 + 2.2	47. 51.	-8.1 -2.1	5 45.0 2 50.0 0 46.4	+1.4 +3.4 +4.5	62. 1 65. 5	+1.6
Greenwood. Heath Springs. Kershaw Landrum Laurens	50 C	10.6	61 1	+6.7	48 0	-4.7	60.0	$ \begin{array}{r} -1.2 \\ -0.2 \\ -1.1 \\ +0.4 \\ +0.9 \end{array} $	68.0 66.0 69.0 66.8	-2.5 -2.5 -0.6 -0.5 +0.1	76.8 76.2 76.2 78.1 75.9	-0. 0. +1. +1. +1.	81. 6 82. 0 88. 8 81. 6 488. 4	+2. +2. +4. +4. +4.	77.8 9 77.6 4 79.5 1 76.6 0 "79.6	-0. -0. +0. 0. +1.	5 72.9 6 70.8 8 72.5 0 71.9 7 73.4	-0.5 -2.6 -2.6 -1.1 -0.5	60.4 61.8 63.7 60.9 62.2	-1.8 -0.5 -0.1 -1.5 -0.2	49. 49. 51. 3 48. 2 50.	-1. -2. -1. -2. -1. -0.	9 47. 5 50. 2 45. 8 47.	6 +4. 4 +3. 0 +1. 0 +2.	62.1 62.1 62.9 6 61.7 1 63.5	+0. +1. +1. +2.
Little Mountain Long Creek Newberry Saluda Santuck	54. 0	+8.	7 53.1 4 53.6 52.8	+6.9 +7.1 +5.6	51.3	-4.4 -3.4 -5.5	61.8 61.8 60.2	0.0 -1.1 -2.0	68.9 69.9 68.6	-2.1 -0.9 -1.1	77.4 78.6 78.6	-0. +0. +1.	82.9 184.4	+2. +3. +3. +3.	7 79.1 4 79.1 5 78.	5 +0. 6 +0. 6 +0.	1 74.5 9 73.4 8 72.4	21.6 51.	68.2 68.2 61.9	-0.5 -1.5 +0.	46. 2 49. 6 m48. 4 49.	8 -2. 4 -4. 5 -1.	7 48. 3 F47. 5 47.	4 +3. 8 +2. 5 +4.	64.0 8 0 62.	71 4 1.
Spartanburg Treuton Walhalla Winnsboro Winthrop College	50. 6 56. 0 42. 9 53. 5	3 +8. +9. +6. +9. +9.	9 51.4 3 56.5 9 50.5 5 52.	+7.9 +8.9 +6.1 +6.1 +6.1	9 48.4 7 53.8 8 47.6 8 50.6	-2.8 -2.6 -3.6 -2.6 -3.6	60.1 63.8 58.9 61.8	0.0 +0.1 +0.1 +0.1	67. 70. 66. 4 *69. 4 68.	7 -1. 4 -1. 6 -0. 8 -0. 8 -0.	3 76.8 2 76.6 9 74.8 7 *78.6 5 77.6	8 +0. 8 +0. 8 +0. 6 +1.	7 81.8 6 81. 1 79.8 7 88.3 2 82.	+2. 7 +1. 8 +2. 8 +4. 4 +3.	8 77. 6 78. 6 75. 0 79. 0 79.	8 +0. 4 -0. 8 -0. 8 +1. 0 +0.	8 72. 9 75. 6 70. 1 73. 8 72.	2 0. 8 +0. 3 -1. 4 -0. 6 -0.	61.6 66.6 4 59.8 6 63.8	+0. +1. +1. +1. +1. +0.	6 48. 8 58. 0 48. 2 49. 5 49.	2 -2. 2 -1. 1 -2. 4 -8. 7 -2.	6 51. 8 44. 3 48. 1 47.	9 +2. 9 +4. 8 +0. 2 +3. 4 +3.	5 65. 8 60. 8 63. 6 63.	7 +1. 5 +0. 7 +1. 0 +1.
Division means and departures. Section means and departures.	50 8	18	9 50	14.6	19 6	-3	60.5	-0.	4 68.	0 -1.	6 76.	9 +0.	3 82.	0 +2.	7 78. 7 79.	5 +0.	.3 72. 2 73.	5 -1. 2 -1.	2 62.	2 -0. 7 +0.	4 49.	2 -2.	. 5 49.	6 +2	9 64.	+0.

The departures from the normal temperature are computed only for such stations as have ten or more years of record.

Reference letters (\*, \*, \*), appearing in the table indicate number of days missing: For example, \* represents two days missing, etc.

## WEATHER BY MONTHS.-Continued. (CONTINUED FROM PAGE 49.)

and February was much warmer than usual. Precipitation was below normal, particularly along the coast.

March.—Minimum temperature records were broken at many stations during the cold period, 6th to 15th. Late spring freezes were general as late as the 16th. Many snowdepth records were broken. A tornado on the 22d eaused the death of 4 persons and injured 34; property damage, about \$100,000. Violent windstorms caused about \$100,000 addinormal on the whole, was badly distributed. Temperature tional damage on the same date, and losses by lightning approximated \$15,000. Flood data.—Santee River System: about \$10,750.

April.—Precipitation averaged much below normal, and \$5,500.

the temperature was somewhat below the average. Late spring freezes occurred at Walhalla and Caesar's Head on the 15th

May.—Temperatures and precipitation ranged somewhat helow the averages. Wind squalls caused about \$46,500 damage, and hailstorms, about \$185,000, mostly in young crops.

June. Two tornadoes damaged property about \$4,000 Three persons were killed by lightning, with \$1,000 damage averaged close to normal.

July .- The Section average temperature was the highes Dee System: losses approximated \$6.390; property saved, about \$10,750.

of record for July. Three persons were killed by lightning of drowned in washouts. General damage.—By wind squalls \$10,000; by hail, \$20,000; by lightning and heavy rains August.—Precipitation was close to the average, and temeratures were near normal. One person was killed by lighting, and property damage by lightning approximated 12,000.

September.—Rainfall was generally deficient in the low buntry during the first two weeks, and a week longer in the p-country. Temperatures averaged somewhat below normal.

October.—Precipitation was considerably more than twice normal, and temperatures were somewhat above. Freezing imperatures occurred in the higher elevations on the 7th and 8th. Flood data.—Santee River System: losses, about \$4,680; movable property saved, about \$25,550. Pee Dee wstem: losses, about \$1,700; property saved, about \$23,000. lightning caused about \$2,500 damage.

November.—The line of freezing temperatures extended outhward over the upper counties on the 12th, reaching the wer coast by the 14th. Precipitation was again unusually easy, the average being nearly twice the normal. The avage temperature was much lower than usual. Flood data.—onlinal losses; movable property saved in the Santee River estem, about \$15,700.

December.—Temperature and precipitation both averaged uch above normal. A general sleet and ice storm prevailed at the 16th and 17th, the greatest depth of mixed sleet, ice, id snow being 7.0 inches in upper Cherokee County. Flood ta.—Santee River System: losses, about \$1,900: property ved, about \$19,350. Pee Dec System: Losses, approximated 4,855; property saved, about \$15,150. The year closed with ong period of unnsually mild weather.

COMPARATIVE DATA FOR SOUTH CAROLINA.

	Те	mperatu	ire.	Precir	itation	Aver	age num days.	ber of	ing	direc-
Year.	Mean.	Highest.	Lowest.	Average.	Average days with 0.01 inch or more.	Clear.	Partly Cloudy.	Cloudy.	Prevailing	wind d
	62, 3 61, 8 4 64, 64, 65, 64, 66, 64, 66, 64, 66, 64, 66, 66, 66	110 108 102 104 104 104 104 106 106 106 106 106 106 106 106 106 106	5 13 13 13 13 13 13 13 13 13 13 13 14 15 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	43, 43, 43, 54, 63, 64, 65, 66, 66, 66, 66, 66, 66, 66, 66, 66	101 104 186 98 88 89 99 107 95 96 97 97 97 97 97 97 97 97 97 97 97 97 97	154 154 163 168 168 168 167 167 167 167 166 168 189 181 163 163 163 163 164 165 165 166 167 167 167 167 167 167 167 167 167	123 119 119 110 110 110 110 110 110 110 110	888 9584 1055 969 964 1911 111 111 111 111 111 111 111 111 1	SW. SW. SW. SW. SW. SW. SW. SW. SW. SW.	† †

<sup>†</sup> Also other directions.

MONTHLY AND ANNUAL CLIMATOLOGICAL DATA FOR SOUTH CAROLINA, YEAR 1932.

	Te	mper	ture	٠,	Pro	elpitat	lon.	Dolost	PALIBIAN.	numidity.	possible sun.		Sun of d				Ind. p Ane
Months.	Меап.	Departures.	Highest.	Lowest.	Average.	Departures.	Greatest local monthly amount.	Average-8 a.m.	Average-Noon.	Average-8 p. m.	Percentage of pos shine.	Rainy.	Clear.	Partly Cloudy.	Cloudy.	Average hourly velocity.	Prevailing direction.
January February March April May June July August September October November December	54. 5 54. 3 51. 4 62. 1 69. 1 77. 6 82. 6 79. 0 73. 2 63. 7 51. 2 49. 6 64. 0	+8.8 +6.7 -3.2 -0.2 -1.7 +0.2 +2.7 +0.2 -1.2 +0.1 -2.5 +2.9	85 83 86 92 96 103 108 103 103 89 81 81	20 5 28 41 51 49 55	4, 93 3, 74 3, 67 2, 05 3, 85 6, 30 3, 74 5, 31 3, 22 6, 99 4, 45 6, 33 54, 08	+1.85 -0.52 -0.27 -1.01 -0.28 +1.43 -2.07 -0.41 -0.88 +3.93 +2.11 +2.65 +6.08	9, 82 6, 40 8, 32 4, 23 8, 48 13, 33 9, 76 10, 69 8, 16 14, 51 8, 28 20, 00 20, 00	80 69 70 77 82 77 84 82 84 80 86	47 45 53 60 52 58 58 58 58 58	71 65 55 56 63 74 66 73 70 72 68 80	57 56 68 73 73 66 76 66 58 66 62 39	9 10 7 6 8 12 8 9 8 6 7 12	15 12 17 16 17 10 17 15 18 18 16 8	66 66 77 77 11 10 9 8 5 4 7	100 111 88 77 77 99 44 77 99 88 100 160	8.6 8.7 10.7 9.0 8.4 7.6 7.6 7.6 7.6 7.9 9.4 8.5	8. e. w. ne.

<sup>†</sup> West also.

## KILLING FROST OR FREEZING TEMPERATURE DATES AND GROWING DAYS.

	15	932.		ges—all re years or m	
Stations.	Last in spring.	First in autumn.	Last spring date.	First autumn date.	No. of grow- ing days.
Eastern Portion. Beaufort (near)	Mar, 15	Nov. 14	Feb. 24	Dec. 4	283
Blackville	Meh. 15	Nov. 14	Mch. 20	Nov. 13	283
Charleston	Meh. 15	Feb. 6 <sup>8</sup>	Feb. 20	Dec. 11	294
Cheraw	Mch. 16	Nov. 13	Mch. 31	Nov. 3	219
Conway	Meh. 16 Meh. 16	Nov. 13 Nov. 13	Mch. 6 Mch. 29	Nov. 9 Nov. 4	231 220
Ferguson		Nov. 13	Mch. 29	Nov. 4 Nov. 8	220
Florence No.1	Mch. 16	Nov. 12	Mch. 19	Nov. 12	238
Garnett	Meh. 16	Nov. 13	Mch. 10	Nov. 13	248
Kingstree		Nov. 13	Mch. 15	Nov. 14	244
Marion	Meh. 16	Nov. 13 Nov. 14			
Orangeburg	Mch. 15	Nov. 13	Meh. 18	Nov. 14	241
Pinopolis	Mch. 16		Mch. 5	Nov. 24	261
Society Hill	Mch. 16	Nov. 13	Mch. 24	Nov. 8	229
Summerville	Meh. 16	Nov. 13	Mch. 16	Nov. 13	242
Sumter	Mch. 16 Mch. 15	Nov. 13 Nov. 13	Mch. 20	Nov. 18	243 244
Yemassee	Meh. 16	Nov. 13	Mch. 20 Mch. 15	Nov. 19 Nov. 13	244
	2.4011.10	21011.10			248
Normal	Meh. 17	Nov. 19	Meh. 16	Nov. 14	247
Western Portion.	Meh. 14	Nov. 13	Meh. 17	37 10	0.45
Anderson	Mch. 15	Nov. 12	Mch. 25	Nov. 19 Nov. 9	247 229
aesar's Head	Apr. 15	Oct. 7	MCH. 25	NOV. 9	220
Calhoun Falls	Mch. 24	Nov. 12	Mch. 29	Nov. 5	221
anden	Meh. 15	Nov. 13	Meh. 13	Nov. 14	246
Cherokee (near)	Meh. 24 Meh. 16	Nov. 12 Nov. 12		.,,	
Columbia	Mch. 15	Nov. 13	Apr. 1 Mch. 17	Nov. 2 Nov. 18	215 246
Due West	Meh. 15	21011 10	Mch. 22	Nov. 16	239
reenville	Meh. 15	Nov. 13	Mch. 30	Nov. 6	221
ireenwood	Mch. 16	Nov. 12	Mch. 23	Nov. 9	231
Heath Springs Kershaw	Meh. 24 Meh. 24	Nov. 12 Nov. 12	Mch. 27	Nov. 5	223
andrum	Meh. 23	Nov. 12	Mch. 28 Apr. 5	Nov. 7 Oet. 30	224 208
aurens	Mch. 15	Nov. 12	Apr. 2	Nov. 3	215
ittle Mountain	Mch. 24	Nov. 12	Mch. 25	Nov. 10	230
Newberry	Mch. 16	Nov. 12	Mch. 30	Nov. 5	220
aluda antuck	Mch. 24 Meh. 25	Nov. 12 Oct. 28	Apr. 3	Oct. 27	207
partanburg	Mch. 16	Nov. 13	Apr. 5 Mch. 30	Oct. 19 Nov. 2	208 217
renton	Mch. 15	Nov. 12	Mch. 20	Nov. 15	240
Valhalla	Apr. 15	Oct. 7	Apr. 8	Oct. 28	203
Vinnsboro	Meh. 15	Nov. 12	Meh. 25	Nov. 13	233
Vinthrop College	Mch. 16	Nov. 12	Meh. 28	Nov. 6	223
Normal	M-1		Meh. 27	Nov. 7	225
Averages for 1932	Mch. 22	Nov. 9			232
Section Normal			Meh. 22	Nov. 10	233
Section averages for 1932	Meh. 20	Nov. 14			239

Note.—Killing frost data in above table determined according to the following standard: Last or first clear or partly cloudy day with temperature of 32° or lower and last or first cloudy day with 31° or lower, but without rain, sleet or snow; in case of precipitation, then the next preceding or succeeding day with proper temperature and weather was used. The average number of growing days is the difference between the average spring and autumn killing frost dates. \*1933

From 45-year average:

#### MAP SHOWING LOCATION OF OBSERVATION STATIONS.



KEY TO SYMBOLS.

- $\textcircled{ } \qquad \text{Meteorological observations. (Regular Weather Bureau Stations, including Greenville.)}$
- O Meteorological observations (Sub stations.)

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU, CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

OL. XXXVI. COLUMBIA, S. C., JANUARY, 1933

#### GENERAL SUMMARY.

The year opened with remarkably mild weather, and recipitation averaged considerably below normal.

The general absence of prolonged freezes was favorable for inter cereals and hardy truck. While there were two exended periods of high temperatures, and hardy shrubbery egan to bud, with some leafing, all tree fruits remained latively dormant. Winter wheat sowing was completed aring the first week. Plowing made fair progress for the ason. The weather was much too mild for general hog itchering.

#### TEMPERATURE.

The monthly mean for the Section, determined from reerts of 42 stations, was 51.4°, or 5.5° above normal. The arm periods were from the 3d to the 12th and from the 16th the 27th, when the daily mean temperatures ranged from to 26° above normal. The lowest temperature was 16° at ong Creek, Oconee County, on the 2d and 3d. The cold riods were on the 1st and 2d, on the 13th and 14th, and ° below normal.

#### PRECIPITATION.

The average for the Section, 55 stations reporting, was 34 inches, or 0.92 inch below normal. The amounts were rly well distributed in two periods. In the extreme southern inties, the measurements ranged from 3 to over 4 inches, ile in the interior the amounts ranged downward from 3 to s than 2 inches. The greatest local monthly amount was O inches at Beaufort (near); least local monthly amount, 7 inches at Darlington. The greatest amount during any hours was 1.66 inches at Santuck on the 8th and 9th.

A general sleet and frozen rain storm, with some snow, vailed in the central and northern counties on the 13th: general ice coating was thin, and the greatest depth of xed ice, sleet and snow was 5.0 inches in Newberry County. asurable snowfall occurred in the northeastern counties. h a maximum depth of 4.5 inches at Cheraw.

Killed by Windstorm .- 25th, Mrs. Juanita A. Wolfe, near ndy Run, 19 miles southeast of Columbia, caused by a ing tree.

#### RIVER CONDITIONS.

All rivers, except the Congaree at Columbia, averaged siderably above normal stages. The Saluda River at ppells fell below flood stage by the 2d. The Santee River

at Rimini and Ferguson and the Pcc Dec River at Mars Bluff were close to or above flood stages throughout the month, and the Pee Dee River at Poston was above flood stage until the 11th.

#### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 5, 7, 31; Columbia, 7, 8; Greenville, 7; Newberry, 7; Santuck, 8; Spartanburg, 7; Winnsboro, 8. Solar: Charleston, 7, 24; Columbia, 7, 22; Greenville, 20, 26.

Fog, dense. - Beaufort (near), 19, 20, 21; Charleston, 24; Columbia, 16, 20, 24, 31; Greenville, 20; Mars Bluff, 31; Pelzer, 20; Spartanburg, 22; Walhalla, 12; Winnsboro, 20, 29; Yemassee, 24, 31.

#### CHANGE IN STYLE.

Beginning with this issue, the text subjects, Pressure, Humidity, Wind, and Sunshine and Cloudiness have been incorporated in the small table on this page.

In the large table, Comparative Date, temperature and precipitation departures, greatest and least monthly precipitation, and average snowfall have been added. The prevailing winds have been omitted.

#### IMPORTANT NOTICE.

The monthly and annual Climatological Data for South out the 30th, when the daily means averaged from 5° to Carolina, as for other Sections, is a subscription document. The price is \$0.50 per year for loose copies and \$4.00 for each complete set for the year, in bound volume.

The subscription price in postal money order should be made payable and mailed to Superintendent of Documents, Government Printing Office, Washington, D. C., whence instructions will be issued for listing. Back files, when available, are furnished only on this basis.

#### ERRATA.

June, 1932.—Period precipitation in Comparative Data, page 23, should be 4.81; precipitation departure on page 22 and in text, page 21. should be plus 1.49 inches. December, 1932.—Columbia, maximum temperature, 17th, page 48, should be 31. Catawba, total precipitation, pages 46 and 47, should be 6.43 inches.

#### PRESSURE, WIND, HUMIDITY AND SUNSHINE.

		Atı (re	nosphe	erie ; to se	pressu: a-leve	re l)		Win	nd			elati ımid		of shine
	Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage of sunshine
The state of the s	Asheville, N. C Angusta, Ga Charleston S. C. Charlotte, N. C. Columbia, S. C Greenville, S. C Savannah, Ga Wilmingtou, N. C. Means and ex-	30, 12 30, 12 30, 11 86 11 30, 12 30, 10 30, 12 30, 10	30. 57 30. 53 30, 60	1 1 1 1 1 1 1 1 1 1	29, 34 29, 50 29, 40 29, 31 29, 41 29, 38 29, 52 29, 27	27	6.1 10.8 12.1 7.5 9.4 10.7 10.0		nw. nw. w.	1 25 27 27 25 25 25 27 26 27	90 88 84 80 88 80 88 83	75 62 64 62 64 64 64 60	65 74 60 68 67 76 74	67 67 57 65 54

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					Clima									I.			2	=	:	
Stations.	Counties.	m, fee	Length of record, years.		Departure from the normal.	Highest.	Date.	st.	hilly			E-2	77	unmelted.	(0.01 m. or more)	Parrix cloudy.		Committee directio	ot wind.	Observers.
Eastern Portion. Beaufort (near) <sup>‡‡</sup> Blackville Clarleston Cleraw. Conway. Darlington Elungham Fergusoni <sup>‡</sup>	Florence	21 296 48 144 25 175 106 63	58 50 63 52 45 89	58. 2 54. 5 55. 8 53. 0 54. 4 52. 4	+1.7 +6.7 +5.9 +9.2 +6.2 +6.7	68 78 75 77 79 78	21 21 21 21 21 21 21 21	33 27 35 25 27 26	1 2 14 2 16 2	31 39 24 42 43 36	4.40 2.72 3.85 2.33 2.32 1.07 2.38	+1.56 -0.65 +0.83 -0.81 -1.27 -1.88 -1.15 -1.04	1.20 0.76 1.10 0.88 0.57 0.52 1.09 0.92	0 0 0 4.5 T. 2.5 0	8 9 10 7	11 1 10 24 16	0 4 1	7 11 7		Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Wenther Bureau Roland D. Powe. Perry C. Quattlebaum. D. C. McCull. Wm. B. Gillespie. Henry C. Savage.
Florence 1. Florence 2. Garnett . Kingstree . Marlon . Mars Bluff . Myrtle Beach . Orange-burg . Pluopolis**	Florence	136 136 82 54 68 92 30 264 54	52 19 16 52 9 10 2 19 87	52.8 54.8 *55.4 54.2 *58.8 54.8 50.8	+6.7 +4.5 +7.4 	76 77 *79 78 *75 76 74	† 5 †20 24 21 †20 1 †20 22	28 *28 *28 29 *27 32 27	16 16 30 16 30	45 42 42 42 42 37	2. 63 3.84 3. 97 2. 63 1. 97 2. 49 2. 74 2. 27 3. 34 2. 71	-0.34 +0.89 -0.56	0.78 1.05 1.23 0.60 0.90 0.70 1.23 0.85 0.92 0.85	0 0 0 0 T.	7 8 8 8 4 8 7 7 8 9	16 11 20 18 17 14 14	9 13 4 6 5 10	6 7 7 7 7 8 9 7 13	w. w. ne. w. s.	H. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Mrs. Ellen Scott Dr. Charles B. Whilden. Rosa R. Davis. Myrtle Beach Invest. Co. U.S. Fisheries Statton. Miss E. P. Invened. Marion P. Sweatman.
Rimini Society Hill Summerville Sunter Wedge field Yennssee Division means and	Darlington Dorchester Sumter Sumter Hampton	97 192 78 169 249 2-	2 48 5 36 9 12 9 43 4 45	*50.8 53.8 51.2 52.7 55.2 53.5	+6.7 +4.4 +4.6 +6.5 +6.3 +5.5	*77 79 73 75 77 79	21 4 †21 †20 21 † 4	*26 28 26 27 29 25		*42 42 35 39 43	2.82 2.85 2.26 2.05 4.21 2.76	-0.87 -0.29 -1.30 -1.54 +1.34 -0.49	0, 66 0, 71 1, 05 1, 10 1, 20	4.0 0 0 0 0 0	9 7 5 11	15 9 12 21 15	5 5 10 5 6	11 17 9 5 10 9	n. s. sw. w. sw.	E. D. Fields, Jr. Clemson Coast Exp. Sta Smiter Water Dept. W. Hampton Ramsey W. C. Hutson.
Western Portion.  Alken Anderson Bhirs Cessirs Hend 44 Callionn Falls Camden	Anderson	. 29 811 . 50	54 41 93 29 18 10 08 85	42.4 51.4	+5.6	. 69 80	21 21 21 21 21	20 24	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	39 37 30 42 39	1. 99 2. 75 1. 87 3. 00 2. 41 2. 74	-1.49 -1.80 -1.55 -0.76	0. 82 1. 36 1. 34 5 0. 52	T.	3 4 4 9	13 19 10 14	3 3 7 8	15 9 14 9	nw. w.	Frank B. McCoy H. H. Russell. Sarah L. Owens. Cresar's Head-P. Mtn. Co L. M. Farker. Henry A. Brown. James C. Faris.
Catawba Chinppells Cherokee (near) Cleinson College Columbia Crescent Edgefield. Ellenton	Spartanburg Oconee Richland Spartanburg Edgefield T	46 7: 8: 8: 8: 6: 5	52 28 52 29 58 6 50 45 51 45 30 2 76 5	47.8 47.8 47.6 52.0	6 +4.	75 73 6 76	20	19 26	2	38 39 32	2, 40 2, 56 2, 59 2, 66 2, 01 3, 11 2, 56 2, 38 2, 40	-1.00 -2.3 -1.4 -1.8 -1.8	8 1.16 1.28 0 1.36 1 0.63 1 0.90 1 0.90	T.	0 9 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	7			w. sw	Prof. F. H. H. Calhoun. U. S. Weather Bureau. Duke Power Co.
Ellenton Gaston Shonis II Greenville.  Greenwood Henth Springs Kershaw Landrum Laurens	Greenvine Greenwood Lancaster Kershaw Spartanburg Laureus	10 6 5	)63   1 589   1	0 49. 0 49. 2 49. 8 52. 9 49. 6 50.	4 +6. 6 +5. 7 +7. 2 +7. 2 +7.	4 78 8 78 5 78 0 °78 4 70	5 2 5 2 5 2 5 2 6 2	2 20 1 20 1 27	2 2 2 2 2 2 2	4	2.86 2.7- 1 2.85 2.65 2.16 2.65 2.66 2.86	3 -2.0 1 -1.1 7 -1.1 7 -1.6 5 -3.1 1 +1.8 0 -0.3	7 1.1 2 1.2 1 1.2 5 1.6 80 1.2	4. 4. 2. 2. 2 T	5	17 16 6 14 12	9 15	14 12 23 8 4	w. w. w. nw ne.	M. M. Calbonn, J. Marvin Bowers, John W. Hamel, R. Hartwell Wilds, D.D.S L. G. Roff. Miss Elberta Sease.
Little Mountain Long Creek New berry Pelzer Sainda Santnek Spartanburg Trenton Walladia	Oconee Newborry Anderson Saluda Union Spartanburg Edgefield	10	502 8 850 8 536 4 512 4 824 8 620 661	1 50. 45. 45. 30 51. 32 151. 49. 57 49 41 34 47 40 50	3 +6. 4 +6. 3 +6. 3 +7. -2 +4 0 +6	9 7 3 17 3 7 6 7	5 1 1 5 1 5 1 5 1 5 1 5 1	8   1   1   1   2   1   2   1   2   2   1   2   1   2   1   2   2	1 2 2 3 5 80 8 2 3 2	14: 14: 4: 3	2.8 2.6 2.4 2.7 5 2.8 7 2.2 1.8 0 2.8 1 2.7	2	1. 5 29 1. 1 22 1. 6 1. 6 1. 6 97 1. 6 74 1. 6 82 0. 6 13 1. 7 1. 7	6 0 10 10 10 10 10 10 10 10 10 10 10 10 10	. 2 0 0 0 . 1	8 9 8 13 4 7 17 5 13 7 6 3 7 12 8 16 6 9	77 114 146 10	111 34 4	W	John H. Baxter. Farl J. Frick. B. B. Blease. E. W. leter. U. S. Weather Bureau. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson.
Winnsboro Winthrop College I Division menns a	York		690	34 49	.8 +6	.9 8	50	21 2	0 2 6 † 2	2 4	3 2.8 17 2.8	55 -1.	44 1.	66	0.3	6 13	3	8 1	0 sm	

The departures from the normal temperature and precipitation are computed only for such stations as have temperature; for example, by represents two days missing, etc. determining section on the intermediate manner of days missing; for example, by represents two days missing, etc. determining section on the intermediate manner of the property of the dry hubble means are computed from observed readings of the dry hubble means are computed from observed readings of the dry hubble means are computed from observed readings. Plots tollowed the dry hubble means are computed from observed readings, 1Post-olic addresses of these stations were soldiness are as followed by the dry hubble for the dry hubble of the d

16 † 2 | 47 | 2.64 | -0.92 | 1.66 | 0.4 | 7 | 14 | 8 | 9 | sw.

21 80

Daily Precipitation for January, 1933.

	Prainage-																																
Stations.	basins.	1	2	S	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	30	81	Tota
Eastern Partion, ufort(near). kville rleston *** raw !	Coast										. 11		. 25	1. 05 . 75 1. 04 . 21 . 25	. 25 T.									.40	. 03	.76	. 20	. 05			.01	. 10	4, 40 2,72 8,85 2,83 2,82
lington	Pee Dee	T.							T.	. 09	. 27		. 22	.11	. 98											. 51	.11	.22	.05			T. T. .02 .03	1.07 2.38 2.70 2.63 3.34 3.97
gstree        lun   s Bluff   tle Bench   ngeburg   ppdis	Black									. 28 T . 40 . 22	,35		.06	. 90 . 70 . 45 . 85	. 59 . 30 T.									. 14		. 56 1. 23 . 83	.16	.05	.02				2, 63 1, 97 2, 49 2, 74 2, 27 3, 34
tni	Ashley Waterce	. 08								. 15	. 17		.10	1, 05 1, 10	. 57	i									. 45	.20 .71 .82	. 10	. 15	.10		T. .02 .05	T.	2.74 2.32 2.85 2.26 2.05 4.21
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offeld ## uton on Shorts ## uville *** uwood ## th Springs.	Saluda								. 40	1. 26	.07	. 15	. 02	T	. 0			Т			Т		.02			1.28	. 16	.06				.07	2, 56 2, 38 2, 40 2, 86 2, 74 2, 37
shaw drum rens le Mountain g Creek. therry ter !!}	Lynebes Broad Saluda Saluda Saluda Saluda Saluda Saluda Saluda Saluda								. 04	1. 17		T .06 .02	.02	T .44										0.8		1.22	.06	. 18			T.		2.67 2.15 2.61 2.80 2.82 2.69 2.43
elntuck thick that in the state of the st	do Broad do Edisto Savannah Broad Catawba	Т.							. 61	1. 66	. 0:	. 05	T. T.	T. 60				Т.	T.		.04		T.	T.	1.00	1.00 .79	. 15	.10 .11	Т				2.73 2.87 2.23 1.80 2.87 2.78 2.85

Except as otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of observation. If Precipitation measured in the morning; amount then recorded by for the precipitation and the morning; amount then recorded by for the Aburn period, indighent to including it. Precipitation included in the next following measurement. Esseparate dates of falls not recorded. Thrace, or less than 0.01 held.

COMPARATIVE DATA FOR JANUARY.

														-													
		Tempers	ture			Prec	pitatio	on		Num	ber	of Da	iys			Tempera	iture			Prec	ipitati	on		Num	ber	of Da	ıys
ear	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest	Least Monthly	Average	Precip61 inch or more	Clear	Partly Cloudy	Cloudy
7 8 9 0 1 1 2 8 1 1 5 6 6 1 7 8 9 9 0 0 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40. 1 46. 2 44. 9 54. 1 46. 2 42. 7 38. 0 47. 9 44. 2 43. 2 49. 2 44. 4 44. 0 45. 1 42. 4 43. 7 40. 2 41. 4 41. 0 53. 4 44. 6 45. 5 46. 2 49. 6 45. 6 46. 2 49. 6 46. 2 49. 6 49. 6 49. 6 49. 6 49. 6 49. 6	-5.8 +0.3 -1.0 +8.2 +0.3 -3.2 -7.9 +2.0 -1.7 -2.1 -3.3 -1.5 -1.9 -0.8 -3.5 -2.2 -7.9 -1.7 +3.3 -3.5 -1.9 -1.7 -1.9 -1.7 -1.9 -1.7 -1.9 -1.7 -1.9 -1.7 -1.9 -1.7 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9	73 76 81 75 77 77 77 80 77 80 77 80 77 81 80 77 81 80 87 77 81 83 88 88 88 88 88 88 88 88 88 88 88 88	5 15 15 17 21 16 3 19 5 9 3 8 17 3 18 11 13 8 8 12 18 11 11 16 11 11 11 11 11 11 11 11 11 11	2.80 2.94 5.81 1.166 6.75 2.515 7.31 3.229 1.80 4.743 3.555 2.97 2.85 2.97 2.85 2.97 2.85 2.97 2.85 2.97 2.85 2.98 2.98 2.98 2.98 2.98 2.98 2.98 2.98	-0. 76 -0. 62 +2. 25 -2. 40 0. 00 +3. 19 -1. 04 -0. 41 +3. 75 -0. 54 -1. 27 -1. 76 +1. 16 -0. 61 -1. 13 -0. 61 -1. 56 +2. 29 -2. 85 +1. 30 -2. 62 -2. 62 -2. 68 -1. 58	4. 48 4. 72 8 79 2. 75 7. 12 10. 45 5. 94 11. 83 4. 76 6. 5. 65 5. 68 4. 78 4.	1. 94 2. 14 3. 85 0. 28 1. 17 2. 94 0. 60 1. 19 4. 23 1. 51 0. 19 2. 84 1. 20 0. 30 3. 52 T 2. 94 0. 50 1. 15 0. 19 0. 19 0. 10 0. 1	0.3 4.0 2.6 T. T. 1.1 0.1 0.8 T. 0.1 T.	8 10 10 6	10 9 12 13 12 10 16 14 15 10 15 15 12 15 12 14	9 9 10 8 10 7 6 5 6 6 4 9 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	12 13 9 10 9 14 9 10 9 15 11 10 15 7	1912 1913 1914 1915 1916 1917 1918 1919 1921 1922 1923 1924 1925 1926 1927 1928 1929 1928 1929 1931 1941 1951 1951 1951 1951 1952 1952 1953 1953 1953 1954 1955 1955 1956 1957 1957 1957 1958 1958 1958 1958 1958 1958 1958 1958	40. 2 53. 8 46. 7 45. 1 52. 8 49. 7 37. 3 47. 1 46. 2 49. 0 43. 3 44. 9 44. 1 45. 7 46. 9 44. 5 54. 5 51. 4	-5.7 +7.9 +0.8 +6.4 +3.8 -8.6 +1.2 +0.3 +1.0 -1.7 +3.1 -2.6 -1.0 -1.8 -0.2 +0.3 +1.0 -1.1 -1.0 -1.1 +1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -	79 82 81 79 82 80 85 79 85 76 76 81 81 82 80 85 86 86 87 88 80 88 80 88 80 88 80 80 80 80 80 80	6 23 18 19 10 9 -2 8 6 17 14 20 1 18 12 2 0 15 10 10 10 11 11 11 11 11 11 11 11 11 11	4, 92 3, 21 2, 06 6, 31 1, 76 4, 15 3, 54 4, 15 3, 53 2, 74 4, 3, 54 6, 18 0, 98 4, 01 4, 46 2, 58 4, 93 2, 64 3, 56	+1.36 -0.35 -0.95 -1.80 +0.18 +0.18 +0.19 +0.50 +0.10 +0.28 -0.63 -0.82 +0.78 +2.62 -2.58 +0.98 +0.90	8.66 6.33 5.06 9.53 3.82 5.89 10.11 8.50 8.00 7.16 4.77 6.20 12.50 9.52 1.63 3.20 7.16 7.50 3.55 9.82 4.40	2. 26 0. 10 1. 11 3. 15 1. 31 1. 90 1. 13 0. 30 1. 00 1. 31 1. 57 0. 87 2. 94 4. 47 0. 16 0. 10 2. 25 2. 37 1. 43 0. 98 1. 07	5.4 T. T. T. T. 0.2 1.4 1.1 T. 0.4 0.2 0.1 T. 0.4 0.2 0.4	9 8 5 9 9 12 10 7 7 7 7 7 9 6 6 9 11 11 4 5 10 11 7 7 7 7 8 9 9 11 11 11 11 11 11 11 11 11 11 11 11	13 10 16 12 10 10 10 13 13 12 15 10 17 16 12 11 17 18 14 13 14 13 16 15 16 17 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	4 6 9 6 9 7 6 6 5 7 6 6 6 5 7 6 8 7 7 8 8 7	14 15 6 13 12 14 12 7 7 12 10 15 9 11 15 14 8 8 10 9 11 13 14 14 15 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18

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Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
Eastern Portion.  Beaufort (near)   Maximum   Minimum	466 333 383 485 558 381 641 345 381 466 381 466 386 633 322 575 361 344 433 477 361 361 361 361 361 361 361 361 361 361	477 355 59 277 555 633 255 61 311 577 26 60 30 60 80 60 80 50 80 50 80 50 80 50 80 50 80 50 80 50 80 80 80 80 80 80 80 80 80 80 80 80 80	27 666 36 61 31 71 37 61 84 65 34	56 78 50 71 58 50 70 49 97 76 64 74 41 72 41 8 75 54 75 54 74 41 74 43 79 74 46 77 44 8 79 74 46 77 44 8 79 74 46 77 44 8 79 74 47 67 74 48 79 74 48 79 74 48 79 74 48 79 74 48 79 74 48 79 74 74 74 74 74 74 74 74 74 74 74 74 74	646 562 577 577 577 576 571 576 574 575 574 575 574 575 574 575 574 575 574 575 574 575 574 575 577 576 577 577 577 577 577 577 577	63 52 69 48 65 3 68 42 69 51 66 44 72 75 66 46 72 49	65 477 739 744 522 69 43 72 40 72 40 72 43 47 47 47 47 47 47 47 47 47 47 47 47 47	63 51 55 50 63 54 60 69 72 47 72 47 61 67 50 67 50 67 50 67 50 67 50 67 50 67 50 67 67 50 67 67 60 60 60 60 60 60 60 60 60 60 60 60 60	59 55 62 67 53 65 65 65 65 65 65 65 65 65 65 65 65 65	62 37 60 84 55 60 61 82 63 83 62 83 62 83 64 63 83 62 81 59 8 64 81 59 8 64 81 64 81 64 81 64 81 64 82	66 89 70 74 74 74 74 74 74 74 74 74 74 74 74 74	65 55 55 55 64 67 72 46 67 72 50 45 60 45 67 50 66 59 68 68 55 66 44 68 55 66 47 68 68 68 68 68 68 68 68 68 68 68 68 68	63 58 55 34 46 55 34 46 55 34 35 36 82 4 32 1 55 53 36 82 87 88 58 58 81 55 58 34	61 34 41 35 43 36 40 32 39 30 54 32 39 30 40 32 39 40 32 40 33 40 32 40 33 40 40 40 40 40 40 40 40 40 40	51 40 55 58 59 52 53 56 56 57 58 58 58 58 58 58 58 58 58 58	500 344 528 537 618 628 628 638 44 658 638 648 658 658 658 658 658 658 658 658 658 65	58 88 70 70 87 70 88 87 70 88 88 87 70 88 88 88 88 88 88 88 88 88 88 88 88 88	61 45 47 47 47 47 47 47 47 47 47 47 47 47 47	63 47 73 49 47 47 47 47 47 47 47 47 47 47	6557756457555755575575575575557555755575	68 53 55 55 56 77 77 77 77 77 77 77 77 77 77 77 77 77	67 57 57 57 57 57 57 57 57 57 57 57 57 57	66 670 6270 6270 6270 6270 6270 6270 627	65 58 35 56 59 57 65 76 56 56 57 55 76 56 56 57 57 47 57 57 47 57 57 47 57 57 48 57 57 48 57 57 48 57 57 48 57 57 48 57 57 48 57 57 57 57 57 57 57 57 57 57 57 57 57	679 654 717 566 444 751 768 471 565 766 55 7	65 66 44 65 65 64 44 65 65 64 45 66 65 44 66 65 65 65 65 65 65 65 65 65 65 65 65	56 48 59 64 46 67 48 60 48 60 48 60 48 60 48 60 48 60 48 60 49 60 48 60 48 60 48 60 60 49 60 60 60 60 60 60 60 60 60 60 60 60 60	39 56 36 55 42 60 38 38 57 40 56 38 57 40 56 40 40 56 40 40 40 40 40 40 40 40 40 40 40 40 40	51 56 32 56 58 56 57 57 33 49 57 30 54 57 30 56 57 30 57 30 57 30 57 57 57 50 50 50 50 50 50 50 50 50 50	477 366 536 542 552 553 553 552 553 552 553 552 553 552 553 553	499 377 600 366 585 444 632 633 666 33 663 336 665 577 33 665 665 685 685 685 685 685 685 685 685	59, 46, 64, 44, 63, 64, 41, 66, 43, 866, 844, 866, 844, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 866, 848, 848
Hesten Partion.  Alken   Maximum   Minimum.  Anderson   Maximum   Minimum.  Calloon Falls   Maximum   Minimum.  Calloon Falls   Maximum   Minimum.  Canden   Maximum   Minimum.  Cherokee (near)   Maximum   Minimum.  Cherokee (near)   Maximum   Minimum.  Cherokee (near)   Maximum   Minimum.  Columbia   Maximum   Minimum.  Greenwood   Maximum   Minimum.  Greenwood   Minimum.  Greenwood   Minimum.  Minimum.  Greenwood   Minimum.  Minimum.  Minimum.  Minimum.  Minimum.  Minimum.  Little Monutalin   Minimum.  Long Creek   Minimum.  Little Monutalin   Minimum.  Long Creek   Minimum.  Long Creek   Minimum.  Maximum   Minimum.  Long Creek   Minimum.  Minimum.  Long Creek   Minimum.  Min	658 356 346 348 348 348 348 348 348 348 348 348 348	444 200 522 244 488 23 466 177 433 1522 266 455 200 488 200 522 276 466 177 520 498 491 150 153 188 472 21 153 188 472 23	355 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	51,54,54,55,56,56,56,56,56,56,56,56,56,56,56,56,	52 38 65 53 60 52 61 46 65	67 42 38 64 33 63 42	710 710 710 710 710 710 710 710	453 453 477 611 453 444 458 464 458 466 655 466 655 466 665 466 665 466 665 466 665 666 665 666 665 666 667 667	657 559 47 559 47 557 438 41 57 458 44 56 458 458 46 56 47 57 41 56 42 42 43 56 43 56 44 56 46 56 46 46 56 46 46 56 46 56 46 56 56 56 56 56 56 56 56 56 56 56 56 56	64 88 57 25 62 29 34 58 25 58 82	71 48 60 42 48 60 68 46 67 41 6 63 3 60 8 65 65 3 5 5 6 68 4 2 2 6 3 4 4 6 6 3 6 6 6 6 6 6 6 6 6 6 6 6 6	49 58 41 55 542 57 57 44 660 65 645 52 65 65 65 66 66 66 66 66 66 66 66 66 66	555 388 477 300 384 301 311 314 304 305 311 415 417 417 417 417 417 417 417 417 417 417	88 400 300 300 499 266 422 333 400 322 77 422 511 251 366 433 299 51 217 456 500 354 500 354 500 354 500 354 500 354 500 354 500 354 500 354 500 354 500 355 500 354 500 355 500 354 500 355 5	53 50 28 53 88 52 53 54 73 60 61 61 63 63 63 63 63 64 65 66 66 68 68 68 68 68 68 68 68	600 822 860 822 600 244 835 588 322 600 244 835 61 25 58 32 61 25 58 32 61 25 61 33 61	68 40 46 45 838 63 44 46 65 42 66 69 44 66 43 65 46 67 41 66 67 41 66 67 42 66 68 68 68 68 68 68 68 68 68 68 68 68	72 48 70 47 71 44 72 46 69 47 74 47 74 47 74 47 74 47 71 42 74 74 75 75 76 77 47 76 77 47 76 77 47 76 77 47 76 77 47 76 77 47 76 77 47 76 77 47 77 76 77 77	73 48 65 67 72 66 67 72 66 67 72 66 68 68 68 68 68 68 68 68 68 68 68 68	75 555 555 568 656 778 688 677 755 688 677 755 688 677 755 678 677 755 678 678 678 678 678 678 678 678 678 678	77 57 56 9 46 8 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	75 58 75 75 75 75 75 75 75 75 75 75 75 75 75	71 62 65 54 69 65 69 77 66 68 68 68 68 68 68 68 68 68 68 68 68	74 68 64 7 65 64 65 66 64 64 65 66 64 64 65 66 64 64 65 66 65 66 64 65 66 65 66 65 66 65 66 65 66 65 66 65 66 65 66 65 66 65 65	694465656565664556645566455664556645566	45 62 411 63 44 45 43 26 63 39 58 43 68 43 68 43 68 43 69 64 44 65 64 65 65 66 67 67 67 68 68 68 68 68 68 68 68 68 68 68 68 68	655 400 400 400 400 400 400 400 400 400 4	883 544 266 566 567 578 488 356 488 356 546 488 356 546 368 368 368 368 368 368 368 368 368 36	54 30 31 51 29 52 55 82 55 53 26 56 26 56 26 57 57 58 29 57 57 58 29 57 57 58 58 58 58 58 58 58 58 58 58	541 377 477 477 477 477 478 479 479 479 479 479 479 479 479	62 28 62 28 62 29 62 63 4 62 62 63 64 62 63 66 64 62 65 66 64 62 65 65 65 65 65 65 65 65 65 65 65 65 65	60.0 39.5 59.3 56.5 57.7 62.2 62.0 60.0 38.5 59.5 59.5 62.0 62.0 62.0 62.0 62.0 62.0 62.0 62.0

Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

| Minstruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

| W BO, Raleigh, 2-24 | 33-900 |

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

#### CLIMATOLOGICAL DATA.

No. 2

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vol. XXXVI. COLUMBIA, S. C., FEBRUARY, 1933.

GENERAL SUMMARY.

Temperature and precipitation averaged somewhat above

normal. Winter cereals, hardy truck, and pastures maintained generally good condition during the month, checked only by a rather prolonged period of low temperatures, with some hard reezes, between the 8th and 13th, when some damage resulted to tender truck in the coastal sections. Extensive hog outchering proceeded during the cold period. Tree fruits releston, 27, 28; Columbia, 27; Greenville, 12, 22. nained relatively dormant until the last week, when peaches, pears, and plums began to bloom, forest trees were budding, and some hardy shrubbery was leafing. Otherwise, the month vas generally mild and more or less spring-like. The internittent showers to about the 21st retarded spring plowing to ome extent, but this work became much more active during he succeeding dry weather. Considered as a whole, live stock

#### TEMPERATURE.

The monthly mean for the Section, determined from reorts of 42 stations, was 48.0°, or 0.4° above normal. he highest temperature was 82° at Garnett and Yemassee on he 25th. The warm periods were from the 1st to 3d, about he 7th, on the 14th and 15th, and from the 18th to the 25th, hen the daily mean temperatures ranged from 5° to 21° lead on the 9th. The cold periods were on the 5th and 6th, com the 8th to the 13th, and about the 16th, when the daily nean temperatures ranged from  $5^{\circ}$  to  $24^{\circ}$  below normal.

#### PRECIPITATION.

The average for the Section, 54 stations reporting, was .86 inches, or 0.58 inch above the normal. Intermittent nowers occurred until about the 21st, followed by a period of ry weather. Rainfall ranged from 5 to over 7 inches in the pastal plain and in small areas of the northwestern border ounties, while in the northern interior, the amounts ranged ownward from 5 to somewhat above 2 inches. The greatest cal monthly amount was 7.20 inches at Ferguson; least cal monthly amount, 2.22 inches at Darlington. Greatest nount during any 24 hours, 3.20 inches at Yemassee on the h and 8th. The average number of rainy days was 25% ove normal.

A general frozen rain and sleet storm prevailed over the central and northern counties on the 10th and 11th, and snow flurries were reported from a few stations in the higher elevations on the 10th. The greatest depth of mixed ice, sleet, and snow was 0.7 inch in sections of Chesterfield, Darlington and Marlboro Counties. Snow flurries also occurred at I and it m on the 5th, and sleet at Walhalla on the 6th.

#### RIVER CONDITIONS.

The stages averaged above normal in all streams of the Section, except in the Congaree River at Columbia. The Santee River, the Pee Dee River below Cheraw, and the Black River at Kingstree were close to or above flood stages throughout the month.

#### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 6; Greenville, 3. Solar: Char-

Fog, dense.—Beaufort (near), 1, 14; Challesten, 2, 3, 14, 17, 20; Columbia, 11, 12, 14, 17, 18; Conway, 3; Greenville, 2, 14, 15, 18; Heath Springs, 14; Mars Bluff, 3, 4, 14; Myrtle Beach, 14; Pelzer, 2, 14; Spartanburg, 1, 2, 7, 8, 18; Sumter, 14; Trenton, 10, 11.

#### CUMPARATIVE WINTER RECORDS, 1887-1933.

The winter of 1932-1933 closed with an average temperahe succeeding dry weather. Considered as a whole, live stock and dairy cattle had ample pasturage. Spring white potato Warmest.—(1), 1889-1890, 55.2°, or 8.5° above normal; (2), and cabbage planting began in the coastal counties after the niddle of the month, which closed with all vegetation in a or 4.1° above normal; (4), 1926-1927, £0.7, or 4.0° above normal. Coldest.—(1), 1903-1904, 41.9°, or 4.8° below hereactically normal. mal; (2). 1902-1903, 42.1°, or 4.6° below normal; (3), 1900-1901, 42.3°, or 4.4° below normal; (4), 1917-1918, 42.8° or 3.9° below normal.

> The lowest temperature of record within the borders of this State was 11° below zero at Santuck and Shaw's Fork on February 14, 1899, with 10° below at Holland, and 9° below at Cheraw on the same date. Notable cold periods. - January 6-23, 1893; February 3-21, 1895; February 8-17, 1899; February 3-20, 1902; and December 25, 1917-January 24, 1918.

The greatest depth of snow during any one month or durbove normal. The lowest temperature was zero at Caesar's ing any 24-hour period was 18.0 inches at Smith's Mills on February 10-11, 1912, and at Society Hill on February 24-25. 1914. Depths of 15 to 17 inches occurred in the northwestern tier of counties on February 14-15, 1902.

#### PRESSURE, WIND, HUMIDITY AND SUNSHINE.

		nosphe					Wir	ıđ			elati imid		ge of sunshine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage of sunsh
Asheville, N. C., Augusta, Ga. Charleston, S. C. Charlotte, N. C. Columbia, S. C. Greenville, S. C. Savannah, Ga. Wilmington, N. C. Means and ex- tremes.	30, 14 30, 14 30, 13 36, 14 80, 14 80, 12 80, 13 30, 13	80.64 80.64 80.67 80.66	9 9 10 10 9 9 10	29.71 29.67 29.65 29.72	8 7 4 8 7 8 4 4 4	10. 3 6. 4 10. 8 11. 6 7. 4 9. 2 10. 9 10. 1	32 24 30 38 30 35 88 32	n. s. w. sw. sw. w w. nw.	8 7 5 8 8 8 5 26	87 78 81 76 80 71 85 76	76 60 69 62 63 63 69 61	80 60 75 63 69 59 76 71	40 50 51 45

1 Also on 8th.

FEBRUARY, 1933

	Climatological Data for February, 1933.																			
			record,	7	emper	ature,	in deg	rees F	ahr.	-	Preci	pitation,	in ine	hes.	Nun	ıber o	of da	ays.	tion	
Stations.	Counties.	F   F   F   F   F   F   F   F   F   F							Departure from the normal.	Greatest in 24 hours.	Total snowfail.	(0.01 in. or more)	Свеят.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.			
Charleston	Beaufort	21 296 48 144	58 50 63 52	d <sub>53.8</sub> 51.7 53.8 48.2	+0.9 +2.6 +1.4 +2.5	478 79 76 76	25 25 15 24	<sup>d</sup> 22 19 26 17	9 9 9	48 46 33 49	6. 88 5.44 5.93 5.43	+2.97 +1.29 +2.95 +1.68	2, 00 1, 63 2, 15 1, 59	0 0 0 0	10 9 11 10	8 6 7	9 10 6	11 12 15	e. n.	Mrs. R. L. Fripp. Mrs. Mariella S. Matthews U. S. Wenther Bureau. Rohnd D. Powe.
Conway Darlington Effingham Fergusoni‡	Horry	25 175 106 63	45 89 43 48	52. 3 48. 4	+3.2 +1.8 +2.2	81 78 	25 25 24	21 19	† 6 9	49 50 47	6. 62 2.22 4.66 7.20	+2.49 -1.55 +0.02 +3.39	1. 90 0. 66 1. 49 2. 27	0 0 0 0	13 9 8 8	14 13	0 1  5	14 14 	sw.	Perry C. Quattlebann. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Florence	136 136 82 54 68	52 19 16 52 9	50. 1 *58. 7 53. 3 50. 6	+2.9 +0.4 +4.4	76 -82 79 79	24 25 25 25 26	18 *20 22 19	9 6 6	51 *50 49 49	4. 32 4. 70 4. 46 6. 31 4. 50	+0.20 +0.58 +0.51 +2.55	1.10 1.32 2.08 1.75 1.24	0 0 0 0	11 8 10 12 7	9 11 5 13 10	9 7 11 2 6	10 10 12 18 12	SW. e. W.	11. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Mrs. Ellen Scott Dr. Charles B, Whilden.
Mars Bluff. Myrtle Beach. Orangeburg Pinopolis** Rimini	Florence Horry Orangeburg Berkeley Sumfer	92 80 264 54 97	10 2 19 87 20	50. 4 52. 6 49. 1	+1.2 -0.1	73 78 78 78	14 25 †15	20 *24 22	6 9 † 9	46 *44	4. 66 6. 56 4. 72 5. 64 6. 09	+0.98 +2.10 +2.20	1.23 1.95 1.62 2.27 2.50	0 0 0 0	10 8 10 9 10	12 8 9	6 7 13	10 13 6	w. w. ne.	Rosa R. Davis, Myrtle Beach Invest. Co. U.S. Fisheries Statton. Miss E. P. Ruvenel Marion P. Sweatman.
Society Hill Summerville Sumter Wedgefield Yemassee	Darlington Dorchester Sumter Sunter Humpton	192 75 169 249 24	43 36 12 43 45	<sup>5</sup> 45.9 51.3 49.1 49.6 54.1	+0.3 +0.7 +0.2 +0.8 +3.7	<sup>5</sup> 76 81 74 77 82	24 25 †25 25 25 25	b18 23 20 19 20	† 6 5 9 9	151 45 47 47 48	5, 28 5, 29 4, 80 5, 03 5, 97	+0.87 +1.42 +0.80 +1.03 +2.27	1.57 2.27 1.60 1.45 8.20	0 0 0 0	8 11 11 7 7	12 10 9 14 10	8 1 5 2 3	13 17 14 12 15	w. ne. ne. w. w.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Dept. W. Hampton Ramsey W. G. Hutson.
Division means and  Western Portion.	extremes			51.0	+1.6	82	25	17	9	51	5.84	+1.41	3, 20	0	9	10	6	12	110.	
Aiken Anderson Blairs Cesars Hend ‡‡ Cathom Fulls Camden	Aiken	527 764 293 3118 508 222	72 41 29 10 85 84	52. 0 45. 4 36. 4 46. 7 45. 6	+2 5 -0.7 -0.2 -1.8	77 75 67 75 77	†24 25 23 24 24	15 11 0 11 15	9 9  † 9 9	51 36 45 39 43	3. 67 3. 99 4. 41 5. 92 5. 57 5. 43	-0.43 -1.05 +0.21 +0.51 +1.51	1. 37 1. 56 1. 15 2. 58 2. 26 1. 07	0 0 0 T. 0	5 9 10 8 7 15	7 13  5 9	4 0  8 8	17 15 15 11	11e. W.	Frank B. McCoy H. H. Russell. Sarah L. Owens Crear's Hend-P. Mtn. Co L. M. Furker. Henry A. Brown.
Catawba Chappells, Cherokee (near) Clemson College Columbia	York	562 402 758 850 851	28 29 6 42 47	44. 2 44. 3 49. 0	-0.8 +0.8	77 74 75	25 28 25	10 10 10 17	9 9 9	48 48 48 88	3, 53 5, 19 3, 93 5, 11 3, 71	-0,99 +1,01 -0,27 -0,06	0.86 1.60 1.24 2.20 1.26	0 0 T. 0 0	10 11 8 9 12	12 9 5	4 2 7	12 17 16	w. ne.	James C. Faris. William Spearman. Spartauburg Water Works Prof. F. H. B. Calbonn U. S. Weuther Burean.
Crescent.  Edgefield  Elleuton  Gaston Shouls ‡†  Greenville.	Spartanburg	630 550 76 680 1039	7 21 2 31 50	44.9	+1.6	74	25	::::: ::::::::::::::::::::::::::::::::	9	33	3, 99 4, 80 6, 11 3, 87 3, 98	+0.73 -0.72 -1.25	1, 63 1, 49 1, 76 1, 52 1, 94	0 0 0 T.	12 7 9 11 13	9	4	15	sw.	Duke Power Co. P. S. W. B. Aerological Sta A. A. Foreman. Southern Public Utilities. U. S. Weather Burenn.
Greenwood Heath Springs Kershaw Landrum Laurens	Greenwood. Lancuster. Kershaw Spartanhurg. Laureus	671 568 500 1063 589	50 82 18 19 16	45.6 46.4 48.7 43.9 45.8	+1.2 +1.7 +1.4 -1.5 -0.4	74 75 75 78 75	25 24 25 25 25 25	14 18 20 9 13	9 9 9 9	40 47 44 42 43	5, 58 4, 61 3, 23 5, 04 3, 62	+0.85 +0.69 -0.64 +0.38 -1.29	2.12 1.08 0.98 2.04 0.79	0 0 T. T.	12 9 5 9	12 10 10 9 12	0 3 2 8 9	16 15 16 11 7	w. w. w. uw. n.	M. M. Callionn, J. Marvin Bowers, John W. Hamel, R. Hartwell Wilds, D.D.S. L. G. Roff.
Little Mountalu. Long Creek Newberry ff Pelzer Saludu Sautuck	Newberry Oconee Newberry Anderson Saludu Union	711 1000 502 850 536 512	32	46. 2 42. 6 *46. 3 45. 2 46. 2	0.0 -0.2 -2.1 +2.1	74 76 *75 *75	24 25 †24 25 25 25	11 8 11 16 14	9 9 9 	49 46 *46 *50 41	4. 47 5. 48 5. 55 4. 38 4. 63 8. 94	+0.03 +1.10 -0.38 +0.05 -0.95	1.45 2.46 1.86 1.82 1.30 0.80	0 0 0 0	9 13 9 12 9 10	12 8 9 11 6	2 11 5  8 9	14 9 14  9 13	n. n. w. ne. se.	Miss Elberta Sease, Mrs. K. L. Burton, John H. Baxter, Earl J. Frick, B. B. Blease, E. W. Jeter,
Spartunburg Trenton Walhalla Winnsboro Winthrop College []	Spartanburg Edgefield Oconee Fairfield York	824 620 1061 545 690	34	43, 9 49, 6 42, 6 45, 8 46, 2	+0.4 +2.2 -0.5 0.0 +1.6	75 78 76 75 75	25 † 3 25 24 †24	12 14 8 15 12	9 9 9 9	42 52 48 46 48	3. 03 4. 81 5. 26 5. 19 3. 33	-1, 68 -0, 07 -0, 16 +0, 86 -0, 87	1. 18 1. 60 2. 35 1. 66 0. 75	T. 0 0 0	11 6 10 12 8	5 4 10 7 8	6 11 6 9 10	17 13 12 12 12 10	nw. se sw. uw n.	U. S. Weather Bureau. Mrs. S. E. Long. H. W. Braudt. Rev. Oliver Johnson. W. T. Clawson.
Division means and Section means and	extremes			45. 6 48. 0	-0.4 +0.4	78 82	† 3 25	0	† 9	52 52	4. 51	-0.05 +0.58	2.58 3.20	T.	10	9	6	13 13	w. w.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (e, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. 4 Also on other dates. If Received too hate to be inclined in means and summaries. The remarker data use from observed readings of the dry built, in means are computed from observed readings. Il Post-office addresses of these stations we as follows: Of Gaston Shouls, Blacksburg; of Witthrup College, Rock Hill; of Ferguson, Entawylle; of Cesar's Black, Greenville; of Beaufort (near), Burton. Three-piration is best lian 0.01 for fair or metted show.

## Daily Precipitation for February, 1933.

Stations.	Drainage.										-			-		Day	of m	onth				-								_			
	busins.	1	2	3	4	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	80	31	Fotai.
Kastern Portion. aufort (mear) rekville	Const	. 10 . 31 T.	. 01		T. T.			.25	1, 63		. 82	2.00 1.10 1.01 1.36	12.2				.06		1. 12 1. 12 1. 22	. 28	. 05	.20				. 08	T. 0	1					6.88 5.44 6.98 6.43
rlington	Pee Dee	. 08 . 24 T. . 04	. 34 . 70 1. 23 . 88	. 13	T T.	T.		:::	. 44 . 74 2. 27			. 66 1. 35 1. 32	. 13					 Т.	.25 .16 .27	. 91 1. 52	. 05 T.	. 04	 T.				· · · · ·						6, 62 2, 22 4, 66 7, 20 4, 32 4, 70
ngstree    h rion rs Bhuf rtle Beach augeburg ropolis	Bluck Pec Decdo	. 03 1. 09 . 05 . 64 . 67	1.85 1.23 .03		. 05 T.	. 04	. 08		1. 60 1. 21 1. 17 1. 95 1. 62	. 15 T	Ť.	. 75 1. 24 1. 12	. 30		T. T.	T. . 05	:		. 08 . 26 1. 54	1.75 .68 .50	T. . 14 . 03 T.	. 15 03 . 03		Ť			. 06						4. 46 6. 31 4. 50 4. 66 6. 56 4. 72 5. 64
nln1	Ashley	. 05 . 57 . 58	. 49		43.1			Т.	1,27		.04	1. 25 1. 57 . 80 1. 60	. 14					.24	. 15 1. 05 . 23 1. 07	1.00 .42 .48	.03	. 10 . 20 . 13		. 02			.05						5. 09 5. 28 5. 29 4. 50 5. 03 5. 97
en lerson lrs     str's Hend houn Pulls     nden	Savannah Broad Saluda Savannah Waterce	. 19	. 67		. 09	. 08		1.56	1. 21 .09 .95 2. 58 .29 1. 05		T.	. 55 . 40 . 31 . 07	. 42			.05 .06 .66	••••	. 16	1. 37 . 70 1. 15 . 18 2. 10 . 88	.14	. 53 . 95 . 76 . 00	.56					• • • • •						3, 67 3, 99 4, 41 5, 92 5, 57 5, 43
phells      rokee (near) uson College umble *** scent.	Conguree Enoree	. 13 . 66 . 20 . 57	35 T.	т.	. 27 . 16 . 25 . 57 . 14	. 03	2. 20	1.24 .15 .54	. 25	. 40	T.	. 41		.05 T	T.	.65 T	T. 62	- 57	.04	. 14	. 98	.10	Т.			.01	.04 T.						3, 53 5, 19 3, 93 5, 11 3, 71 3, 99
ntonsuShoals !!!	Savaunah Broud Suinda do Wuteree	. 22 . 11 . 04 . 20 . 24 . 68	. 13		. 16 . 31 . 42	. 00	.01 1	T 1	. 52 . 02 . 04 . 69		06	. 53			. 38	. 18		.23	. 24	.76	85 . 55	. 31 . 12 .	T			T.	Т.						4,80 6,11 8,87 3,98 5,58 4,61
driin rens le Moontnin g Creek berry er !!!	Saduda	. 25 . 40 . 10	12		. 19 . 35 . 23			. 63 .	.24 .35 .46 .15		10 1	. 17 . 78 . 05 . 22				.02 .09 .09 .02 .17	Т.	04	.68 .77 .45 .38	. 09 1 T. 1.	32 79 85 56	OF.	Т	02	.		Т						3, 23 5, 04 3, 69 4, 47 5, 48 5, 55 4, 28
usboro##	Broad do Edisto Savannah Broad	. 05	05		10 40 21		2.	T. 1 T. 1 . 35	60		12 1	80 47 35 22 23 81 60		T.	.03	.00	т. Т.	T. T.	. 30 . 80 . 54 74 	22 77 01	75 57 80 47	10	r	r.		. 05	т.						4, £3 3, 94 8, 02 4, 81 5, 26 5, 19 3, 33

Except as otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of nevertion. |||| Trecipitation measured in the marning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the above period, midnight to midnight. \* Precipitation included in the next following measurement. Is parate dates of falls not recorded. To Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR FEBRUARY.

								CC	) IL P A	IRA	TIV	EL	A	ra Fo	R FE	BRU	RY.										
		Temper	ature			Prec	ipitati	on		Nun	nber	of Da	ıys			Tempe	rature		1	Pre	cipitat	ion		Nur	nber	of D	avs
ar	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest	Least	Average	Precip61	Clear	Partly Cloudy	Cloudy
	52. 6 49. 9 41. 9 56. 1 54. 7 49. 2 51. 0 48. 9 37. 4 48. 2 50. 0 44. 5 44. 0 45. 2 38. 9 46. 0 45. 2 48. 6 52. 2 44. 7 52. 2	+5.0 +2.3 -5.7 +8.5 +7.1 +1.6 +3.4 +1.3 -10.2 +0.6 +2.4 -3.1 -4.6 -3.6 -4.4 -7.0 +1.4 -2.4 -8.7 -1.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -2.5 -4.6 -4.6 -4.6 -4.6 -4.6 -4.6 -4.6 -4.6	80 77 8 83 78 8 78 8 78 8 78 17 8 5 77 6 44 18 4 9 5	24 15 10 21 13 18 25 16 - 6 5 10 - 11 11 11 15 0 12 12 12 12 12 12 12	3. 41 4. 83 5. 60 2. 38 3. 64 5. 63 4. 35 7. 80 0. 86 5. 77 3. 08 5. 77 3. 08 5. 77 3. 59 7. 03 3. 59 5. 25 8. 63 4. 49 12. 56 8. 64 8. 64 9. 64	+1.49 $-1.20$ $+1.61$	5.32 6.00 7.33 5.69 8.16 6.57 7.71 5.87 4.47 8.70 10.50 2.00 10.61 5.40 10.51 12.48 5.35 8.20 7.26 7.42 9.39 9.06 7.42 9.39	1.89 3.24 3.40 0.85 0.99 1.08 2.74 1.20 3.55 6.08 0.34 3.23 1.86 1.28 2.37 1.95 2.07 1.95 2.87 0.96 1.61 0.96	7.5 0.4 4.9 3.8 T. 0.2 2.1 0.3 0.5 0.4 T. 0.2	10 8 9	8 13 13 10 15 9 9 14 12 10 16 10 14 15 12 12	6 8 7 6 7 7 6 1 1 5 8 1 6 1 1 5 8 6	111 9 8 111 7 100 111 114 4 7 0 9 9 6 6 0	1933	52. 4 47. 5 42. 8 49. 4 52. 6 44. 8 44. 2 52, 4	-5.3 +1.3 -3.0 +1.0.9 +1.0.9 -0.3 +4.8 +5.0 -2.8 +1.7 +10.0 -1.4 +4.8 +1.7 +0.0 +0.1 +6.7 +0.1	80 80 78 81 87 88 75 76 85 82 79 80 78 82 79 88 78 88 78 88 78 88 88 78 88 8	8 22 14 20 11 -2 11 17 8 19 14 14 14 13 19 20 13 12 12 20 0	5. 99 4. 50 4. 41 3. 15 3. 96 4. 73 4. 03 4. 73 6. 62 3. 83 3. 54 1. 69 4. 24 5. 05 7. 85 7. 85 1. 12 1. 74 4. 86	-3.16 -2.51 -0.54 +0.58	9.20 8.85 9.49 7.38 6.86 8.35 7.26 6.99 9.68 10.54 6.25 6.32 3.05 5.70 7.57 9.51 11.42 3.93 4.63 6.40 7.20	2.39 2.39 2.79 1.69 1.00 0.60 0.80 2.38 1.72 1.26 3.23 0.70 1.41 0.70 2.17 2.65 4.07 0.22 0.38 1.09 0.23	5.8 T.9 T.0.1 T.0.3 T.0.2 T. T.T. T.T. T.T.	8 8 9 6 8 8 7 7 10 8 9 9 10 8 7 7 7 6 6 9 9 9 11 4 4 6 6 10 10	15 12 12 15 17 14 14 14 12 12 18 14 15 15 15 15 11 10 20 15 12 9	5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 12 10 7 6 7 10 12 10 12 10 9 9 7 9 11 13 4 7 11 13
-					1100			0.007	4	0 1	13	5 /	7 11	ş								0.22	1.0	8	13	6	9

						D	ail	Te	m	pera	ture	es f	or 1	Feb	rua	гy,	198	3.													
Stations.	1	2	3	4	ā	6	-	8	9	10 1	1   1	2   1	8 1	1	15	6	17 1	8 1	9 2	0 2	1 2	22 2	3 2	4 25	5 2	6 2	7 2	8 2	9 30	31	Мея
Eastern Portion.		Ī	Í							1				-											1						
eaufort(near)   Maximum	58 50	60 50	75 55	69 50	57 28	63 45	62 50	70 48	49 22	42 30 37 26	45 38 37	48 31	61 41	77 60			:		57 50	71 54	68 45	70 38	70 55	65 46 76	78 52	74 41	65 44	57 . 45 .		:	. a
lackville Maximum	59 47	70 53	74 47	63 52	28 53 35 55 37 58	45 49 24	70	65 37	19	37 26	30	48 29	59 37	50	58	65 39 54	52 42 56	66 51 71	68 45 61 52	64 53 67 56	66 37	68 39 64	52 69	42 67	78 52 79 55 78 59 72 45 81 49	75 45 65 50 68 45	63 37 58	00 .			d
harleston Minimum	65 53	64 55	47 72 51 68	67 49 63	37	49 30 45	116 49	68 35	41 26	34	43 35 37 28	49 32	62 44 53	73 55 71	54	45 46	46 54 35	56 65	52	56	37 64 47 65	46 66	56 67	50 76	59 72	50	43 58	44 .			1
heruws Maximum Minimum	65 53 57 42 65	69 48 68	43 70	44	34	18	35	66 39 70 58	45 17 61	19	28	45 25 48 26	34	35 71	50 75	33 70	35 54	42 66	67	64 50 76	88 65	33 67 37 69	50 69	38 76	45 81	70	32 59 37 59	62			
onway Maximum Minimum	42 55 36	53 71 46	43 69	49 49	34 54 37 51	18 45 22 45	49 69 35 68 38 69	58 69	61 21 39	33 19 41 26 34 22	43 32 37	26 48 25	63 35 59 31	51 70 39	58 76 54 71 50 75 53 72 46	33 70 38 46 35	54 39 58 37	52 69	65	76 51 65 52	35 65 37 65 37	37 69	51 68	40 76	49 78 47	48 59	37 59	64	::::::		
arlington W   Maximum   Minimum			42	47	35	19	24	68	19		29	25 48	64	39 71		1	68	43 68	46 70	- 1		34	46 72	1		46	36 58	28 . 66		1	
erguson (W   Maximum Minimum	56 45 56	69 49 71 46	73 44 69	62 50 55	56 34 55	53 24 44	70 33 70	34 64	21 42	37 22 33 23 38 28 28 38 26	45 30 39	28 44	34	40 70 42 79	74 52 71	48 39 58 40	39 54	64	48 63	67 51 67 55 74 54 75 55 64	67 36 68	72 35 69	51 67	77 36 76	72 44 75 55 82 50 79 51 77 88 60	70 42 68	40 65	631.			
orence [	56 44 62	46 67	52	47 67	34 55 33 53 57 55 39 52	19	37 72	40 70 52 70 59	18	23 38	39 27 45 31 41	24	59 34 66	42 79	46	69	38 53	42 78 51	64	55 74	68 40 67 37 65 40 71	45 72	39 69	46 78	55 82	46 72	62	61,			
ingstree / Minimum / Maximum / Minimum	49	67 52 70 53 63	44 78 45 69	47 67 58 72 51	37 55	56 25 48 22	37 72 44 71 42	52 70	52 20 60	28 38	41	52 30 49	42 65 36 60	55 70 52	73	43 68 88 60 36	44 58	68 52 62	50 65	75	65	35 71 36 65	54 67 53	78 39 78 41	79 51	72 50 76 48 79	37 58 38	57 30	:::		1
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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

% Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W B O, Raleigh, 3-28-33-900

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# U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAGOVERSIVE 1933 CLIMATOLOGICAL

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

Vot., XXXVI. COLUMBIA, S. C., MARCH, 1933.

No. 3

#### GENERAL SUMMARY.

Precipitation averaged about half the normal, and temparatures averaged somewhat lower than usual.

Notwithstanding the generally dry weather and a rather cold period during the first week, winter cereals and hardy truck made good progress and were in good growing condition. There was considerable hog butchering during the cold period. Peaches, pears, and plums began blooming early in the mouth and were in full bloom by the 21st, when the woods were greening rather rapidly. Finits suffered no selower than usual for the season. rions setback from frost. Spring plowing was retarded by dry soil, but this work was fairly well advanced. Spring garden planting made good progress, and white rotate and spring cabbage planting was practically completed during the first Greenville, 12. Solar: Columbia, 19, 23, 31; Greenville, 12; week. Asparagus shipments began during the last week, and white potatoes along the coast were germinating well. Tobacco and sweet potato beds improved, and tobacco transplanting began during the last week, with comparatively little blue mold. Corn planting was extending in area as the month closed.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 43 stations, was 54.3°, or 0.3° below the normal. The highest temperature was 89° at Garnett on the 19th. The varm periods were from the 7th to the 9th, from the 12th to he 20th, and about the 31st, when the daily mean temperaures ranged from 5° to 21° above normal. The lowest temerature was 19° at Long Creek on the 3d and 5th, at Cherokee near) on the 5th, and at Santuck on the 6th. The cold peiods were from the 1st to 6th, on the 10th and 11th, about ne 21st, and from the 25th to the 27th, when the daily mean emperatures ranged from 5° to 14° below normal. Late spring eezes were general as late as the 11th, and at a considerable umber of up-State stations as late as the 27th.

#### PRECIPITATION.

The average for the Section, 55 stations reporting, was 96 inches, or 1.94 inches below the normal. Showers were nfined principally to three periods. The monthly measureents ranged below 3 inches, except along the northwestern ge of the Section, and below 2 inches in the major portion the State, with less than 1 inch in sections of Darlington, prence, Marion, and Charleston Counties. The greatest onthly amount was 4.56 inches at Caesar's Head; least nthly amount, 0.76 inch at Marion. The greatest amount

during any 24 hours was 2.22 inches at Kershaw on the 19th and 20th. The average number of rainy days was 38% below the normal. Snow flurries occurred at Caesar's Head on

During a thunderstorm at Spartanburg about 11:35 p. m. on the 17th, an old dwelling was blown down, injuring two persons. The approximate damage to plate glass, power lines, etc., in addition to the home, was about \$6,000.

#### RIVER CONDITIONS.

The Santee River was in flood at Rimini from the 1st 10 the 3d, on the 11th and 12th, and from the 22d to the 27th; at Ferguson, the river was in flood from the 1st to the 6th and from the 24th to the 30th. The Pee Dee River at Mars Elrff was in flood from the 1st to the 5th and from the 28d to the The remaining streams of the Section were generally

## MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 6, 12; Columbia, 8, 12, 13; Spartanburg, 8, 23,

Fog, dense. - Beaufort (near), 16, 17, 18; Charleston, 17, 18; Greenville, 20; Mars Bluff, 18; Myrtle Beach, 18; Pelzer, 20; Yemassee, 17, 18.

#### KILLING FROSTS, FREEZING TEMPERATURES, AND SNOWFALL

The average latest spring killing frost or freezing temperature date for South Carolina as a whole is March 22, and the average earliest autumnal date is November 10, or a normal growing period of 233 days

The average late spring dates for Oconee and Pickens Counties are April 10 and 11, and along the lower coast, March 9 and 10; in autumn, the average early dates for Oconee and Pickens are October 23 to 26, with averages of November 18 to 21 along the lower coast, a normal range of about a month.

Snowfall has been recorded throughout the State during March. The greatest monthly depth of record for March was 16.0 inches at Hogback Mountain in 1927, and the greatest 24-hour snowfall was 12.0 inches at the same station on March 1 and 2, that year.

PRESSURE, WIND, HUMIDITY AND SUNSHINE.

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	(re	nosph	eric to se	pressu ea-leve	re l)		Wi	nd		R ht	elati umid	ve ity	f
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage of sunshine
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J. W.

					Clim	atolo	gical	Dat	a fo	Ma	rch,	988.								
			record,	Te	emperat	ure, in	degre	es Fa	hr.		Precip	itation.	in incl	hes.	Num	ber o	day	rs.	direction md.	
Stations.	Counties.	Elevation, feet.	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.		Greanest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.01 in. or more)	Clear.	Partiy clouds.		Prevailing dire	Observers.
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, by exposents two days missing, etc. + Also on other dates. It Received too late to be included in means and summaries. "Tomperature data are from observed readings of the dry builty means are computed from observed readings. If Post-office adjusces of these stations are as follows: off describes, Blackburg: of Vinturopt oblege, Rock Hill; of Ferguson, Entawville; of Crear's Head, Greenville; of Beaufort (near), Burton. The Precipitation is less than 0.01 inch of rain or melted show.

Daily Precipitation for March, 1933.

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Except as otherwise indicated, observations are generally made late in the afternoon, near smost, and precipitation recorded is for the 24 hours ending at the time of observation. If Precipitation measured in the morning; amount then recorded is for the preceding 21 hours, \*\*\* Regular Weather Bineau station; precipitation is for the 22 hours below the indicated in the indicated in the control included in the next following measurement. Stoppers dates of fails not recorded. There, or each state of the control included in the next following measurement.

COMPARATIVE DATA FOR MARCH.

		Tempera	ature			Prec	ipitati	on		Num	ber (	of Da	ıys			Temper:	ature			Pree	ipitati	on		Nun	ber	of Da	ys
Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Мевл	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Mouthly	Average Suowfall	Precip01 inch or more	Clear	Partly Cloudy	Cloudy
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Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

WEO, Raleigh, 4-27 33-900

Vol., XXXVI.

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief,

#### CLIMATOLOGICAL DATA

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

COLUMBIA, S. C., APRIL, 1933.

#### GENERAL SUMMARY.

Temperature and precipitation averaged considerably below the normals

All vegetation was near the seasonal average in development, and the woods were generally green by the 9th. Planting of staple crops began about normal dates, and tree fruits had suffered no material frost damage. Though generally light, the showers were rather timely for the germination of cotton, corn, truck, and other crops, except delicient soil moiswas necessary; cotton chopping began in the low country during the last decade. Corn developed better stands than cotton. Aspuragus and other early spring truck shipments began early in the month, and native strawberry marketing began about 25th, when white potatoes, truck, and gardens were in gen- halla, 7th; Long Creek, 17th. erally healthy condition, though needing rain. Winter cereals began heading on short straw about the usual dates, due to Bluff, 11; Spartanburg, 19. deficient soil moisture.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 42 stations, was  $61.1^{\circ}$ , or  $1.2^{\circ}$  below normal. The highest temperature was 87° at Kingstree on the 2d, at Aiken on the 8th, at Garnett on the 12th, and at Blackville on the 19th. The warm periods were from the 1st to the 11th and about the 19th, when the daily mean temperatures ranged from near normal to 12° above. The lowest temperature was 30° at Long Creek on the 4th and 17th and at Caesar's Head on the 7th. The cool periods were from the 12th to 14th, from the 20th to 24th, and on the 27th, when the daily mean tem-

#### PRECIPITATION.

The average for the Section, 54 stations reporting, was 2.31 inches, or 0.73 inch below the normal. Showers occurred in five periods, but the bulk of the month's rainfall oc-curred in one period. Precipitation was generally below normal, with 3 to nearly 6 inches in the extreme eastern, extreme southwestern, and extreme northwestern counties: elsewhere the amounts ranged downward from 3 inches to less than 1 inch in the central counties around Richland County. The greatest local monthly amount was 5.85 inches at Long Creek and Walhalla; least local monthly amount, 0.80 inch at Columbia. The greatest amount during any 24 hours was 3.22 inches at Myrtle Beach on the 16th. The average num-

Death by Lightning.—6th, 3 to 4 p. m., Ed Dewberry, colored, in Macedonia Section, near Gaffuey.

Damage by Hailstorms -19th, 3 to 4 p. m., Goucher Section, south of Gaffney, \$2,500 to young crops; path ranged from one-half mile to 2 miles in width and was about 10 miles in length, and the hailstones ranged from marbles to hen eggs in size; hail in York County was comparatively light. On the

same date, young crops were damaged about \$2.500 in the vicinity of Bishopville, in a short path about 2 miles in width; the hailstones averaged about 1 inch in diameter. The hail in the area from Fairforest to Chesnee and Cowpens was relatively light.

Damage by Wind Squalls .- After nightfall on the 6th, during the progress of a thunderstorm from the region about Fairforest to the region east of Chesnee and Cowpens, dwellings, barns, and other outdoor property were damaged about \$10,000 by wind squalls in a path 2 to 10 miles wide and about 20 miles long.

Damage by Lightning .- 18th, a residence in Laurens struck by lightning and burned; loss about \$6,000.

Damage by Washout .- During an excessive rainfall in the vicinity of Myrtle Beach on the 16th, an earth fill and small bridge on the highway toward Little River was washed out, ture toward the end of the month, when some cotton replanting an automobile was wrecked, and one person was injured; damage about \$1,500.

#### MISCELLANEOUS PHENOMENA (dates).

Latest Freezing Temperatures .- Cacsar's Head and Wal-

Fog, dense. - Beaufort (near), 12; Charleston, 11; Mars

# DEATH OF MR. E. W. JETER, COOPERATIVE OBSERVER AT SANTUCK, S. C.

In the death of Mr. E. W. Jeter at Santuck on April 8, 1933, the Weather Bureau has lost one of its most valued cooperative observers, not only in South Carolina, but in any State in the country. He was born at Santuck, a village near the southeastern edge of Union County, on November 20, 1860, and consequently was in the 73d year of his age. For many years he and his brothers have been well-known planters in the country just outside of Santuck, and, in addition to the regular monthly records, he rendered weekly weather peartures ranged from 5° to 16° below normal. Freezing temporatures were recorded at a few up-State stations on the 4th, 7th, and 17th. public service in the interest of his community, his State, and the nation. It is with more than ordinary regret that this announcement is made. Mr. Jeter has been succeeded by his brother, Mr. W. O. Jeter, who will continue the already long

#### PRESSURE, WIND, HUMIDITY AND SUNSHINE.

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	Stations.						r ve-	mum ity	uc					tage
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	Augusta, Ga Charleston, S. C.,	29.96 29.97	30.34	13	29,60	25 25	11.9	27 32	nw.	3 12	71 74	46 56		68 68
	Charlotte, N. C	29.97	30.38	13	29.50	3	12.8	32	SW.	3	74	46	49	77
	Columbia, S. C	29.96	30.38	13	29,54	3	8.2	36		8	73	43		73 75
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,	Savannah, Ga Wilmington, N. C.	29.97 29.96	30.31	13	29, 67 29, 55	25	11.2 11.0		nw.	4	76	52	72	70
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3	tremes	29,96	30, 41	13	29.50	8	10.3	38	* w.	.18	74	49	00	05

<sup>\*</sup> Also nw., 4th, Wilmington.

11/4 3

#### Climatological Data for April, 1933.

Endern Portlan.	Eastern Portion.	1. Fripp. 3M. Reid. Trella S. Matthews eather Burean. D. Fowe. Coall. (Gillespie, C. Savuge.
Resultor (real)	Resident Portion.   Resi	1. Fripp. 3M. Reid. Trella S. Matthews eather Burean. D. Fowe. Coall. (Gillespie, C. Savuge.
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	Division ments and   extremes	Rissell. L. Owens. S Hand-P. Mtn. Co L. Owens. S Hand-P. Mtn. Co Lowers. A. Brown Mater Works Water Works Woulder Bureau. Power Co. W B. Aerological Sta Foreman. en Public Utilities. Weather Bureau. Calhoun. rvin Bowers. W. Hamel. Lriwell Wilds, D.D.S. Roff. Elberta Sepse. K. L. Burton. H. Baxter. J. Frick. Blease. Jeter. Weather Bureau. Set. Jone. Weather Bureau. S. E. Long. Leter. Weather Bureau. S. E. Long. J. Brandt. Oliver Johnson.

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for examile, by represents two days missing, etc., this or order clusters, if the elevel too late to be included in means and summaries. The means are computed from observed readings of the dry bubble sections are as follows: of daston shorts, flackshort of Winthrap College, Rock IIIII; of Ferguson, Eutawyfile; of Cesar's Head, Greenville; of Beaufort (near), Burton. The Precipitation is less than 0.01 inch of rain or melted snow.

ERRATA.

March, 1933.—Crescent, total precipitation, pages 10 and 11, should be 3.12.

Daily Precipitation for April, 1933.

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rence 2	do	. 0.			. 02		.19	411			900		46				T.	15		. 02	- 44		.03			.06							1.50
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ini [[]	Santee		1		.10		. 20	. 12			. 19					. 16	. 12			. 08						. 62		02					1.61
ety 11/11	Pee Dec				. 04		. 12	. 18					, 08				.23	. 02		. 10	. 28		. 02					. 02					1.02
morville	Ashley				. 19		. 13				. 34					. 15	. 24	. 07								. 25							2.37
geflela	Wnteree							m.									Ť.				****				Ť.								0.86
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10un Falls III	Savannah						.74									.19	. 52		. 48						. 50								2.43
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rokee (near)	Brond	. 17					. 44						.78			. 83	. 48		. 15				0.3										2.83
nson College umbla ***	Savannah Congaree	· de				·	. 95					. 03				, 60	.80		, 30						. 15								2,83
cent	Enoree			.01	. 15	١.	. 02	.30		. 28			01		• • • • •	40	. 05		.31	T.	Т.	••••			.09	0.5	T.				Т.		2.79
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ofield #	Savannah							. 42												.21						. 56							1.19
on Shoals #	Savannah	. 08						.47			.07					. 12	.08			• • • • •					1.30								2.12
mville ***	Saluda	. 08				.09						39	. 95		.03	1.85	.18	.05	. 49	. 04			.10		.26	. 07	• • • • •				T		2.50
n wood ##	do	. 30					. 06									. 11	.40	. 01		. 21			. 10			. 53		. 01					1.61
th Springs	Wateree						1.20	. 21					. 15				.10		. 27	. 14			. 05										2.12
shaw .	Lanches	. 06	1				10	. 16					10			09	0=		20	. 31			05										
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rous	Saluda	. 25					. 10									. 25	.07		. 42	.11				T.	07	0.6							1.65
le Monntain g Creek	Saluda										.00					. 10				. 50						.77							1.57
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er	do	. 30					. 14	. 22			. 02		.18			. 22	. 98		. 50	. 39			. 03	15	.07	20		• • • •				• • • •	1.53
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iton	Edisto	T			T.		T																	m	.45	T.	;		1.		***		1.16
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usboro     throp College	Broad Cutawba	. 09					. 08	.13					. 02			. 04	. 12			. 32													0.92
prinnege						• • • •	. 40	. 14					. 40			. 15	. 25			1.15								'					2.49

Except us otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. III Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the 4-hour period, miduight to midnight. \* Precipitation included in the next following measurement. Separate dates of falls not recorded. T. Trace, or less than 0.01 included.

# COMPARATIVE DATA FOR APRIL

									COL	APA	KA	TIV	E	DATA :	FOR	APRI	L.										
		Temper	ature			Prec	ipitati	on		Nun	ber -	of Da	ys			Temper	ature			Prec	eipitati	on		Nun	ıber	of Da	ays
ear	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precip03 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip01 inch or more	Clear	Partly Cloudy	Cloudy
87 89 90 11 12 12 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	62. 3 64. 6 62. 8 61. 2 62. 8 66. 7 62. 6 66. 9 62. 0 60. 0 62. 4 60. 4 60. 4 60. 4 60. 4 60. 4 60. 4 60. 4 60. 4 61. 6 63. 9 63. 9 63. 9 63. 6 64. 6 65. 1 65. 1 66. 4 66. 3 66. 4 66. 6	0.0 +2.3 +0.1 +0.5 +0.9 +4.4 +0.3 -0.9 +4.6 -0.1 -4.3 -2.3 -1.9 -1.9 -1.9 +2.5 +2.5 +2.5 +4.6 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6 +1	953 93 955 955 955 955 955 955 955 955 9	28 31 30 31 26 29 34 30 28 30 31 26 27 24 30 21 26 27 24 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 31 30 30 30 30 30 30 30 30 30 30 30 30 30	2. 09 1. 33 2. 01 2. 66 1. 13 1. 30 1. 5. 55 1. 31 5. 05 2. 95 1. 34 5. 03 2. 95 1. 34 3. 39 4. 40 5. 29 5. 1. 34 5. 29 5. 31	-0. 95 -1. 71 -1. 03 -1. 02 -1. 38 -1. 91 -1. 74 -1. 03 +2. 51 -1. 73 +0. 20 +2. 01 -0. 95 -0. 96 -0. 96 -1. 70 +1. 99 -1. 46 -1. 73 +1. 99 -1. 46 -1. 79 -1. 63 -1. 91 -1. 63 -1. 91 -1. 63 -1. 91 -1	2.77 1.60 4.10 3.45 2.82 6.75 2.95 9.80 2.46 7.61 7.0.32 10.58 8.55 5.55 2.45 12.84 9.07 8.08 9.80 9.80 9.80 9.80 9.80 9.80 9.80	T. 0,83 0,37 1,10 0,00 0,35 0,33 3,10 0,19 1,41 2,48 2,35 1,64 0,85 0,17 0,85 0,17 0,36 2,40 0,68 0,08 1,19	0.0 0.1 0 T. T. T. T. T.	0	15 12 14 16 16 12 12 15 15 14 14 15 15 10 11 14 15 12 10 11 14 15 15 12	10 10 9 11 16 7 9 9 6 9 9 8 8 8 6 13 10 9	5595879996787479759	1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1927 1926 1927 1928 1929 1928 1929 1928 1929 1928 1929 1928 1929 1928 1929 1928 1929 1928 1929 1928 1929 1928 1929 1928 1929 1928 1929 1928 1929 1928 1929 1929	64. 3 61. 2 63. 7 63. 1 61. 6 64. 9 61. 0 62. 4 61. 4 63. 3 64. 5 61. 5 61. 5 65. 9 60. 3 63. 2 65. 9 63. 4 60. 2 62. 1 61. 1	+2.0 -1.1 +1.4 +0.8 -0.7 +2.6 -1.3 +0.1 -0.9 +1.0 +2.2 -0.8 -0.7 +3.6 -2.0 +1.1 +1.1 -2.1 -0.2	91 90 98 96 92 92 94 91 95 94 91 95 94 95 89 92 96 89 92 98	32 30 30 25 24 28 32 24 26 27 33 18 24 25 26 29 28 33 28 33 28 33 28 33 24 25 26 27 33 31 24 25 26 27 31 28 32 26 27 31 31 31 31 31 31 31 31 31 31 31 31 31	4. 24 2. 00 2. 86 1. 47 1. 79 3. 34 5. 82 2. 43 5. 13 2. 43 5. 90 2. 16 3. 24 4. 30 2. 16 3. 24 3. 34 3. 34 5. 30 2. 31 3. 34 34 34 34 34 34 34 34 34 34 34 34 34 3	+1. 20 -1. 04 -0. 187 -1. 25 +0. 30 +2. 78 -0. 94 +2. 09 -0. 61 +2. 07 +0. 44 +2. 86 -0. 92 -0. 61 -1. 46 -1. 36 +1. 26 -0. 92 -0. 61 -0. 73	8. 43 4. 87 5. 58 5. 34 4. 57 15. 11 4. 10 13. 40 4. 46 8. 30 6. 25 10. 54 5. 40 10. 65 7. 47 7. 20 6. 93 4. 23 5. 85	2. 04 0. 10 1. 25 °C. 0. 54 0. 97 2. 49 0. 36 2. 77 0. 95 0. 70 3. 20 0. 80 0. 20 0. 20 0. 20 0. 25 0. 20 0. 20 0. 20 0. 23 0. 23 0. 80	0 T. 0.4 T. 0 T. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 6 7 4 5 5 7 11 5 10 6 8 9 10 6 6 6 9 9 8 5 10 6 8 8 7	14 20 18 20 18 20 11 16 14 15 18 18 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	5 4 10 6 8 6 9 5 6 8 7 7 5 6 6 8 5 7 7 7 7 8 8 8 7 7 7 7 7 7 7 7 7 7 7	11 6 6 4 4 4 4 10 5 11 6 9 8 10 6 6 6 8 10 6 6 6 9 7 9 9 7

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Blackville / Minimum	58 74	83 53 80	60 75	79 41 69	75 45 68	75	77 46 70	47 78	54 78	79 59 74	57 71	73 58 70	72 43 63	48 65	58 68	55 69	50 74	48 76 57 81	55 5 81 6 63 5	7 4 8 5	6 48 9 71	61	69 54 74	54 77 60	83 59	66 59	70 58	74 58	74 · · · 62 · · ·	71.5 57.5
Charleston Maximum Maximum Maximum	64	59)	75 56 81	50 73	58	65 83	56 72 48	47 73 53 82 47 80	78 59 77 50	74 63 79 54	76	58	52 71	56 69	64 73 50	69 59 69	51 51	81	86 7 55 5	2 5 4 5 1 4 6 5	7 7	48 78 54 61 55 72 6 46	74 46	79 55	79 51	71 47	58 82 42 76	83 48	82 52 77	. 75.7 48.7
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Ponway / Minimum ) Maximum ) Maximum / Minimum	61 80 56	48 81 48	54 80 52	50 73 45 72 47 72 45	78 39	82 56	69 51	82 45	82 45 80 47	82 58 85 55	81 53	71 52		1	- 1	55	- 1	- 10			4								52	73.8
Ferguson 🕅 ) Maximum	80 48	83 49	81 51	72 45 75 46 74	74 42 78 43 75 42 77 43	81 56 82	70 51 72	41	80 51	80 50	77 54	69 56 71 55	71 40 72 44 72 46 72 45 70	70 43 69	70 55 72 52 71 59 74 56 73 52	68 54 68	74 52 76 51 78 49 78 50 74 51	78 43 82 47 84 48 80	52 8 86 6	6 4	5 6 6 4 6 7 7 7 18 4 7 7 16 4 16 4 16 5 5 6 6 16 4 16 4 16 16 16 16 16 16 16 16 16 16 16 16 16	4 70 6 4' 70 70 70 70 70 70 70 70 70 70 70 70 70	72 39 78	76 53 78 53 76 56 78 57	79 58 81 50 83 55 82 52 81 51 83 55	67 50 69 48 69 55 77 52 78	77 51 78 46 76 53 78 51 78 43 73 52	80 47 82 52	52 80 , 55	49.0 76.2
Florence 1 Maximum	48 83 55	83 50 85	82 54	75 46	78 43	62	50	40	78 50 79 47 82 49 81	86 50 80	81 55 76	55 78	44 72	45 73 46	52 71	55 71	51 73	47 84	00	8 6	2 4 7 7 18 4	5 7	7 45 7 45 7 45 7 45 7 75 7 40 7 77 7 40 7 77 7 40	53 76	50 83	48 69	76 53		• • • • • • • • • • • • • • • • • • • •	b76.8
Garnett ) Maximum	61 80	49	62	44 76	42 77	82 61 81	50 73 49 76 53	88 42 82	47 82	80 60 84	76 53 81 56	78 56 72	46 72	711	59 74	56 69	49 73	48 80	54 85	32 5	18 4 57 7 16 4	0 7	79	75 57	82 52	77 52	78 51	83 51	81 55 81	77.1 51.
Kingstree ) Maximum / Minimum / Maximum	60 81	87 52 50	82	47	43 78	63	53 78	44 82 48	49 81	57 85	56 82 54 70	55 72	70 43	44 70 38	73 59	66 58	74 51	79 42	54 85 56	50	52 7 14 4 55 6	1 6	7 40	78 56 76	81 51	78 41	78 43	51 83 49 71	531	76.
Marion ) Maximum Minimum ) Maximum ) Maximum ) Maximum	59 70 60	50 73 54	82 57 70 57	41 69	78- 41 72 43	82 61 71 62	78 53 68 56	48 78 45	49 73 48	84 57 85 53 72 60	70 52	72 55 72 53 67 55	68 40	70 40	69 48	55 55 56 69 56 66 58 67 56	78 58	76	81 62	68	55 6 16 4	6 4			83	41 79 60	73	71 55	73 60	70.5 52,
Myrtle Beach   Maximum   Minimum   Minimum   Maximum   Minimum				1		81	79	84	77 46	79 59	78 56		70		68	67 56	70	79 47 80		82 56	60 7	2 7 8 5 5 6	1 70	7 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 79 5 58	67 52 69	74 48 79 3 48	79 51 84	80 55	75. 51. 75.
Orangeburg / Minimum Society Hill W / Minimum	. 79 . 59 . 79 . 46	81 53 80	62	45 72 43	74 44 79 38	61 82 41	49 69 50	46 84 46	81	86 54 82 59	52 52 76	75 57 69 50	44 71 41	70 47 71 88 71 45	57 73 48	69	73 51 75 53	80 41	85 48	59 58	54 7 43 5	3 4	9 76 7 41 1 70 0 31	3 40	9 81 5 52 7 88 8 54	69 2 46 3 89 4 58	79 3 48	46 80	48	46.
Summerville M   Maximum   Minimum	81	50 82 54	52 79 2 62	72 45	72 43	83 53	70 52	82 43	46 79 51	82 59	76 54	71 58	71 43	71 45	80 55	53 74 57	53	41 81 47	86 56	64 56	49	19 5	0 3	5	54	58	3 78 5 53	48	55	51.
Smarter / Maximum									78	82	80		70	68	70	68	72	79	88	75	58	3 6	8 7	3 7	7 80		77	81	82 53	75.
Wedgefield / Minimum	56	5: 5:	80 8 58 4 82	43	76 44 72 43	80 59 82	74 53 72 49	80 45 82	58 78	58	56 75 54	72 52 72 59	70 39 71 44	45 72	54 68	56 69	51 73 57	46 80	56 85 56	51 74 56	44 67 48	17 4 15 1	9 4 1 7 19 4	3 5 4 7 1 5	3 53 6 85 5 5	3 46 2 6 1 5	6 46 7 77 4 53	51 80 48	80 .	50. 75. 51.
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Amberson	5	4 5	4 5 6 7 6 4 6 6 7 6 1 4 7 6 1 3	7 39 5 61	46 65	73 56 65	39 64 80	75 46 71	71 51 67	83 51 78	56 68	80 47 59	60	57	52 55 40	55	64	44 75	56 72 39	64	43 58 36	68	62 8 42 4	7 E	3 6	2 3	1 5 37 3: 32 7	70	59	63.
Caesar's Head / Minimum / Maximum .	. 4	0 7 0 4 4 7 3 8	0 6 11 3 19 7 50 5	8 31 6 71	32	43	80 74	71 31 72 45	43 70 52	46 83 53 85	74	80	35 72 45 71 3 45	69	63	65	37 65 45	28 81 45 80	54	64 41 78 52 57 54	66 45 58	68 27 74 45 70 44	72 55 78 47	12 5	11 4 11 7 53 5	55 4	19 4	8 80 4 5 0 80	78 . 58 . 0 . 85 .	89. 73. 49 75
Cathoun Falls () (Minimum. ) Maximum. Camden () (Minimum.	5	0 8	50 5 31 8 48 4	6 71 0 40 2 7: 9 4:	74 42 78 2 40	59 80 45	70	81 40	80	80	81 53	84 80 50 72 5 58	71	45 70 3 45	56 70 50	70 53	70 50	80 40	81 52	57 54	58 43	70 44		- 10	51 4		0 8 17 4	0 4	4 53	47
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Cherokee (near) / Minimun	5	6	77	3 3 4 7 16 8	3 2 3 1 7 6 8 4 6 8 4 6	81 0 55	28 70 38	78 89 84	41 75 42 77 50	8:	5 5	72 1 4/5 5 75 2 46 6 67 2 54 3 68	7 70	6 6	62	65	46 65 65 44 7 68	87 77 89 79 45 78 46	53	78 49 66	45	75 42	71 48 71 53 67 49	65 44 70	47 75 49 74 58 78	75 50	41 3 67 7	9 4	7 79 5 50 0 79	78
Clemson College / Minimum.    Minimum   Mi		54	48 79	4 7 16 8 79 6 56 4	9 7	4 83	68	40 82 52 75 49	77	8: 45 79 60	5 5	6 6° 2 54	7 7 8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 6 7 4 5 6	61	5 56	68 53	79 45	53 82 57 78 54	48	58 45 62	72 47	53	50 60 51	58 78	55 72	51 65	8 8 5	2 56 7 72	59
Greenville ( Maximum.		78	75	71 6 49 4	7 6	9 76 8 55	67	75 49	75 5	5 5	1 7 3 5	9 4	5 6	5 6	8 6 8 5	5	2 61 1 45		1	61 45	48					54	48 4	1	3 58 10 81	
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Greenwood / Minimum. / Maximum Heath Springs / Minimum.		78 54 74 58	77 51 74 49	50 4 75 6 50 4	0 4 6 7 0 4	2 5 0 7- 8 5 5 8	6 43	74	7: 4: 7: 4: 7: 4: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9 7	5 6	5 6 6	1 6 9 4 5 6 10 4 19 7	3 4 6 8 6 7 6 5 4 5	7 6 9 5	4 50	44 73 45 79 40	79 48 77 54 81 56 79 50	51 76 47 68	43 53 40 57	14 72 44 73 49 72 42	45	45 72	73 51 72 50 76 55	51 75 52 77 53 75 50 75 51	44 65 43 68	10	17 52	4
Kershaw Maximum Minimum.		77 56	78 52 77 49	79 7	1 7	6 5	9 49	9 49	5 5	2 8	4 8	5 5	0 6	15 4	6 5	0 6 8 5 9 6	2 64	1 74	56 79	49 72	46 65 48	49 72	70 49 68	64	55 74	58 75	48 73 40	76 40	79 78	5 4
Landran Maximum Minimum.		77 56 74 58 75 54	49	72  6 48  4	10 4	1 5	5 7 5 4 0 6	1 76 2 89 9 8	0 4	9 4	8 5	56 4 78 6	6 9	11 6	2 4	9 5	0 48 7 68	5 79	80	72 46 72 42	66	69	49 71 50	46 64 43	48 71 50	75 51	68 43	78 40	80 77 45 55	7
taurens		54	- 1	- 1	1	15 5	5 4	9 4	2 5	A		1	- 1						1		44 65	63					70	- 1	79 83	7
Little Monutain Maximum	:::	70 49	75 50 77 46	79 52	59 70 30	79 8	0 3	1 7 9 4 7 7 6 3 5 8	5 5	5 8 2 5 10 8 10 8	59 80	78 7 56 4 72 5 50 4 54 5	70 49 78 41	40	5 4	19 4 30 6	15 49 30 63	9 5:	2 56 4 78 4 45 9 80	75 48 64 44 65	40 64	41 71	73 42 67 49	63 45 60	45 72	72 49 72 42 71	45 65 89 62 42 68 41 67 87	74 49 73 36 75 40 78 42 77 36	79 83 50 51 77 74 43 52 80 79 45 59 82 80 45 56 82 79	4 1 1 1 1 1 1
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Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, \* represents two days missing, etc.

1. Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

2. WBO, Raleigh, 5.31.33-900

# CLIMATOLOGICAL

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

on. XXXVI.

COLUMBIA, S. C., MAY, 1933,

#### GENERAL SUMMARY.

The month was high in the group of warm Mays, and the recipitation, though averaging somewhat below normal, was adly distributed

Copious to heavy showers occurred in the central counties nd higher elevations during the first week and in the central ections and low country during the closing days, with abunant sunshine and widely scattered local rains during the inervening period. Cotton germinated irregularly, and, while onsiderable replanting was necessary, generally good stands as observed near Bamberg on the 31st, or 2 weeks earlier home at Gaffney. nan normal and the earliest bloom of record during the past egan to show the effects of dry weather as the month proressed. White potato digging began during the second week. Theat and oats headed on short straw; the oat harvest began ide. Tree fruits were in good condition. Strawberry marketog continued, and blackberries appeared on sale about the 5th. All crops were refreshed by showers at the close of the onth.

#### TEMPERATURE.

The monthly mean for the Section, determined from reorts of 44 stations, was 74.9°, or 4.0° above normal. The ghest temperature was 100° at Cheraw on the 14th, at ingstree on the 15th, at Blackville on the 21st, at Camden arm periods extended from the 1st to the 17th and from the Oth to the 30th, when the daily mean temperatures ranged om near normal to 14° above. The lowest temperature was om near normal to 14° above. The lowest temperature was 1° at Caesar's Head and Long Creek on the 4th. Moderately w temperatures prevailed about the 18th and 19th.

#### PRECIPITATION.

The average for the Section, 56 stations reporting, was 19 inches, or 0.43 inch below the normal. The bulk of the onth's precipitation occurred early and late in the period nd was badly distributed as to areas and amounts. In small eas of the northeastern, central, southwestern and northestern counties the amounts ranged from 3 to over 6 inches; sewhere, the measurements ranged downward from 3 inches less than 1 inch. The greatest local monthly amount was 71 inches at Caesar's Head; least local monthly amount, 86 inch at Kingstree. The greatest amount during any 24 ours was 2.81 inches at Columbia on the 30th. The average umber of rainy days was 12% below normal. Dates of hail; ght. - Cheraw, 5th, 8th; Conway, 8th, 21st; Heath Springs,

8th; Saluda, 1st. Moderate.—Bishopville, 27th; Garnett, 8th; Walhalla, 8th, 21st, 31st.

Tornado.-On May 5, between 2:30 and 3:00 p. m., a disastrons tornado traversed the region from a point a few miles northwest of Anderson to Belton and thence toward Bark, dale and Gray Court, finally disappearing in the vicinity of Langford Station and Enorce, a distance of about 45 miles. The path of greatest destruction ranged from 100 to 500 yards in width, the tornado occasionally lifting and returning to earth with renewed violence. The total deaths numbered 19, 100 persons were injured, and about 60 families were rendered homeless-all in Anderson, southern Greenville, and northern Laurens Counties; of the deaths, 11 occurred at Belton, with a loss of \$250,000 to mills and other property in the city. The general losses in the three counties were conservatively estimated at about \$350,000.

busiderable replanting was necessary, generally good stands (Killed by Lightning.—May 2, early night, Tom Lytle, colered developed; chopping made good progress; planting was ored, of the India Hook section, near Rock Hill. 25th, ractically finished by the 20th; the first bloom of the season Odelle Porter, a young girl, while playing in the yard of her

Damage by Lightning, Hailstorms, and Wind Squalls .- May O years. Corn, truck, and other field crops and pastures 3, late afternoon, 2 valuable mules in a barn lot in the Carswell section, south of Anderson, killed by lightning; loss, about \$350. 5th, wind squalls caused about \$2,000 damage to a dwelling and outbuildings on a farm on the Peden Bridge uring the first week, and the wheat harvest, during the last Road, about 10 miles southeast of Chester. 5th, during a eek. Tobacco transplanting was completed by the 15th, with thunderstorm between 3 and 4 p. m., a violent wind equallin ood stands, considering semi-drought, but sweet potato the Shiloh section, south of Chesterfield, wiecked 10 dwellings can splanting was retarded by unfavorable soil conditions in any sections. The asparagus season closed about the 15th, and 15 barns and injured 20 persons in a path about one-half mile wide and about 8 miles long; property damage, about decommercial encumbers began moving during the last degree of the standard property damage, about the standard property damage damage. storm, with heavy hail and wind squalls, advanced from the region about Fairfax to the region about Walterboro, a distance of about 30 miles, in a path of about 5 miles wide; the hailstones ranged in size from marbles to hen eggs; damage by hail estimated at \$61,000; by wind, \$27,000. 25th, about 3 p.m., in the Jolly Street section, near Newberry, wird squalls caused about \$1,100 damage to tenant houses, outbuildings, and crops; moderate hail was reported, and the short path was about one-quarter of a mile wide. 27th, about 4 p. m., during a thunderstorm, a wind squall caused about the 21st and 25th, and at Society Hill on the 26th. The 83,000 damage to 2 dwellings and several outbuildings in the vieinity of Walterboro; 2 persons were injured by timbers. 27th, during a thunderstorm at Greenville, 12:25 to 1:55 p. m., wind squalls damaged buildings in the northwestern part of the city about \$500.

#### PRESSURE, WIND, HUMIDITY AND SUNSHINE.

	Atr (re	nosphe	rie 1 to se	a-level	re I)		Wir	ıd			elati mid		ge of sunshine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage c
Asheville, N. C Augusta, Ga Charleston, S. C. Charlotte, N. C. Columbia, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and ex- tremes	29, 98 29, 98 30, 00 29, 98 29, 98 29, 99 29, 99	30, 28 50, 25 30, 22 30, 33 50, 27 30, 29 30, 26 30, 33	19 19 20 19 19 19 19	29. 64 29, 65	2 3 3 3 3 3 3 3 3 3	7. 5 6. 1 10. 8 11. 1 7. 2 8. 8 10. 8 9. 4 8. 9	29 24 26 38 28 39 25 30	nw. nw. sw. sw. se. nw.	10 27 27 30 30 27 30 30 27	81 77 78 78 77 75 83 80	51 45 60 52 45 52 58 58	66 54 80 56 52 60 77 78	79 84

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# Climatological Data for May, 1933.

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		1	record.	Te	mperat	ure, iı	n degr	ees Fa	hr.		Precip	itation,	in ine	hes.	Nun	bero	of da	ys.	direction md.	
Stations.	Counties.	on, fee	Length of rec years.	Mean.	Departure from the normal.	Highest.	Jute.	Lowest.	Date.	Grentest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snow fall, unmelted.	With precipit on (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
Kastern Portion. Beaufort (near) 11 Bishopville Charlestin Charlestin Charlestin Charlestin Charlestin Charlestin Charlestin Charlestin Charlestin Charlestin Charlestin Charlestin Charlestin Charlestin Charlestin Forence 1 Forence 2 Kingstree Kingstree Marion Mars Binff Myrite Beach Myrite Beach Myrite Beach Division in Society IIII Sammerville Summerville Wedgedeld Vennassee Division menns and	llorry Darlington Florence Orangeburg Florencedolampton Williamsburg Marion Marion Florence Horry Orangeburg Berkeley Samer Darlington Dorehester Samter Samter Samter	21 224 224 48 144 25 175 106 63 136 186 82 54 92 30 264 97 192 75 169 249 249	53  50 63 52 45 48 52 19 16 52 9 10 2 19 87 20 43 43 48	76. 5 78. 3 77. 9 76. 8 75. 8 76. 3 76. 4 76. 0 77. 6 78. 6 77. 0 73. 6 77. 2 72. 7	+4.3 +5.2 +6.4 +5.1 +5.6 +5.6 +5.8 +4.0 +5.5 +6.4 +6.5 +6.4 +6.5 +6.4 +5.6 +6.4 +5.6	96 96 100 95 100 98 98 98 96 99 99 99 90 100 99 99 100 99	22 14 21 14 14 14 14 25 20 †13 22 15 25 15 25 15 25 †15 11 14 14 25 15 25 15 25 15 25 15 16 14 14 14 14 14 14 14 14 14 14 14 14 14	60 55 57 62 53 53 54 54 54 55 54 52 64 52 64 55 55 55 56 64 57 64 57 64 64 65 64 65 64 65 66 66 67 67 68 68 68 68 68 68 68 68 68 68 68 68 68	2 † 4 4 19 18 4 4 † 4 4 † 4 † 19 18 19 18 † 4 † 19 18 † 4 † 18 † 2 † 18 † 2 6	28 33 40 22 28 86 40 34  37 42 40 37  90 37  946 35 144 37 36 46	2.03 3.41 3.74 1.76 5.19 3.72 4.75 4.75 5.75 0.86 3.09 4.77 4.71 1.62 3.25 2.83 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.2	-1.09 +0.20 -1.24 +1.62 -0.07 +0.86 -0.07 +0.86 +0.73 +0.73 -2.49 -2.16 -1.04 -1.40 +0.05 +0.09 -0.42	1. 17 1. 78 1. 12 1. 16 2. 18 1. 30 0. 97 0 '71 1. 85 1. 90 0. 35 0. 35 0. 61 1. 43 1. 30 0. 1. 27 0. 35 1. 1. 40 0. 35 0. 1. 20 0. 20 0. 35 0. 1. 20 0. 20	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 6 6 5 3 6 4 4 8 8 5 5	22 21 20 18  24 19 9 26 25 25  24 19 9 26 25  23 19 19 19 19 20 21 22 25 25 25 25 25 25 25 25 25 25 25 25	8 9 11 9 2 10 10 10 21 3 2 6 3 7	1 1 1 0 4  6 5 2 2 2 1 1 2 4  5 5  7 7 7 7 7 7 7 7 7 7 7 7 7	S. S. S. S. S. S. S. S. S. S. S. S. S. S	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews 1. S. Wonther Bureau. Roland D. Powe. Perry C. Quattlebann. D. G. McCall. Win. B. Gillesple. Henry C. Sawage. H. K. Gilbergle. Henry C. Sawage. Dr. Charles B. Wilden. Roya R. Davis. J. E. Hypan, Jr. H. S. Pisheries Station. Miss E. P. Ravenel. Marion P. Sweatman. E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Peet. W. Humpton Rainsey W. G. Hutson.
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Ellonton Gaston Shoals [1] Greenville Greenville Greenville Greenville Greenville Greenvood Huuli Springs Kerslanw Laudrum Laurens Laurens Little Mountain Long Croek Nowherry †† Peizer Suluda Santinek	Cherokee Greenville Greenwood Lancester Kershaw Spartanburg Laurens Newberry Oconee Newberry Anderson Suluda.	76 680 1039 671 568 500 1063 589 711 1000	2 81 50 50 32 18 19 16 41  30 30 32	72.9 74.7 72.5 74.6 72.4 74.8 75.7 69.8 74.4	+5.7 +4.4 +3.0 +5.0 +5.3 +6.8 +4.7 +3.6 +3.9 +4.4	92 95 94 96 92 96 99 93 99 98 *97	21 21 25 †14 24 21 21 21 15	52 52 50 53 48 52 52 52 44 50	18	40 37 39 3 40 4 40 38 44 44 44	3. 46 4. 21 3. 01	-0.71 +1.25 -0.25	0.85 0.57 1.15 0.61 1.96 0.52 0.60 0.75 0.33 1.03 1.03 0.75		9 10 10 10 10 10 10 10 10 10 10 10 10 10	15 10 18 21 23 20 19 17 24 18	9 0 6 8 7 8 6 8	7 21 7 7 1 1 3 3 6 6 6 7 7 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7	W. S. W. W. S. W. S. W. S. W.	Southern Public Cillities. U. S. Weather Bureau. M. M. Calhoun. J. Mary I Buwers. M. M. Calhoun. J. Mary I Buwers. R. Hartwell Wilds, D.D.S. L. G. Roff. Miss Elberta Sease. Mrs. K. L. Burton. John H. Maxtor. Earl J. Frick. B. B. Black. W. O. Jeter.
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in the departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in electronic properties. Reference betters (\*, b, 0), appearing in the table indicate number of days missing, etc. determining section or division means. Reference betters (\*, b, 0), appearing in the table indicate number of days missing, etc. determining the results of the form observed readings of the dry built; means are computed from observed readings. If Post-office addresses of these stations are as follows: Grounds. Blacksburg: of Winthrop College, Rock Hill; of Ferguson, Entawylle; of Crear's Head, Greenville; of Beaufort (near), Burton. 7. Precipitation is less than 0.01 inch of rain or melted snow.

Daily Precipitation for May, 1933.

											-				-	-				-	ACCOUNT NO												-
Stations.	Drainage-														1	my	of me	outh														_	
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Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of servation. | Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. | Regular Weather Bureau station; precipitation inclinated in the next following measurement. | Separate arts of fails not recorded. | Targe, or less than 6.01 link.

COMPARATIVE DATA FOR MAY

									CO	MPA	LKA	TIVE		DATA	FOR	MAY.	,										
		Tempera	ature			Pree	ipitatio	on		Num	ber (	of Days	3			Temper	ature			Prec	ipitati	on		Nun	iber (	of Da	ays
ar	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precip01 inch or more	Clear	Partly Cloudy	Connec	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip61 inch or more	Clear	Partly Cloudy	Cloudy
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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

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U. S. DEPARTMENT OF AGRICULTURE. WEATHER BUREAU. CHARLES F. MARVIN, Chief.

## DATA. CLIMATOLOGICAL

SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN, Meteorologist.

COLUMBIA, S. C., JUNE, 1933. Von. XXXVI.

#### GENERAL SUMMARY.

Two prolonged periods of heat resulted in a monthly verage temperature much above normal, and the month was emarkably dry, on the whole.

The cotton crop made good progress throughout the month, and chopping was finished by the 10th, with the ields generally well cultivated; the first bloom was observed near Bamberg on May 30, or two weeks earlier than normal The small grain harvest was finished about the 15th, and hreshing made good progress. Ordinarily, much stubble and is then turned for late corn and forage, but this work was delayed this season on account of generally deficient rainall. Sweet potato transplanting was also delayed by hard, lry soil and was not finished until about the 15th, when 9, 21 white potato and strawberry harvests were practically completed and native peach and blackberry marketing began. Corn, sweet potatoes, truck, and other field crops suffered from ack of moisture in most sections as the month progressed, but were refreshed by showers during two periods, with a few heavy rains in spots. Tobacco curing began early in the month, and cantaloupe, muskmelon, and watermelon sales began during the closing week.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 41 stations, was  $78.5^{\circ}$ , or  $1.1^{\circ}$  above normal. The highest temperature was  $106^{\circ}$  at Santuck and Society Hillon the 21st. The warm periods were from the 4th to the 12th and from the 17th to the close of the month, when the daily mean temperatures ranged from near normal to 13° above. The lowest temperature was 43° at Cherokee (near) and Santuck on the 15th. Comparatively low temperatures prevailed on the 1st and 2d and from the 13th to the 16th, when the daily means ranged from 5° to 14° below the normals.

#### PRECIPITATION.

The average for the Section, 54 stations reporting, was 2.74 inches, or 2.03 inches below the normal. Showers occurred in two periods generally. Total monthly amounts of 4 to over 6 inches occurred in only a few small areas, while in the remainder of the Section the measurements ranged downward from 4 inches to less than 1 inch. The greatest local monthly amount was 6.30 inches at Florence No. 1: least local monthly amount, 0.57 inch at Winthrop College, Rock Hill. The greatest amount during any 24 hours was 3.88 inches at Laurens on the 24th and 25th. The average number of rainy days was 40% below normal. Light hail occurred on the 6th at Little Mountain and on the 24th at Heath Springs.

Killed by Lightning .- 24th, about 10 a. m., Mr. John W. Traynham, while standing on the rear porch of his home near Princeton. 30th, Mr. Nathan Campbell, while working in a tobacco barn near Darlington. 30th, 4 p.m., Tobe DuBose, colored, while hastening to shelter from a thunderstorm near Calhoun Falls; the horse he was riding, valued at about \$100, was also killed.

Killed by a Wind Squall .- 29th, young son of Mr. and Mrs. James Wise, killed by falling timbers when a small club house was wrecked at Langley Pond, near Aiken.

Damage by a Wind Squall .- About 1 p. m., 29th, a church and neighboring peach orchards were damaged about \$4,000 by a windstorm at Edmund.

#### RIVER CONDITIONS.

The lower Saluda and lower Wateree Rivers averaged conand the earliest bloom of record during the past 20 years. siderably below normal stages, and the Santee River stages were considerably above the June average, notwithstanding the generally light rainfall. The Santee River was in flood at Rimini on the 4th and 17th.

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Columbia, 30. Solar: Columbia, 1, 2.

Fog, dense.—Bishopville, 12; Mars Bluff, 8, 9, 19, 24, 30.

# MISCELLANEOUS DATA FOR JUNE, BY COUNTIES.

The highest average temperature to the close of 1930 is 79.0° in Hampton and Jasper Counties, and the lowest, 72.4° in Oconee County. The greatest average daily temperature range is 23.6° in Saluda County, and the least, 18.1° in Char-leston County. The absolute highest June temperature of 108° occurred in Barnwell County; the absolute lowest temperature recorded in the section proper was 39° in Oconee County, although Rockhouse, or Old Horse Cove, N. C., in the mountains a few miles northwest of the county line, reported an absolute minimum temperature of 35°

The greatest total monthly amount of precipitation at any station in any June was 18.79 inches in Beaufort and Jasper Counties, and the greastest 24 hour amount of record in June was 6.10 inches, also in Beaufort and Jasper Counties.

The average date for the first cotton bloom observed is June 12

# PRESSURE, WIND, HUMIDITY AND SUNSHINE.

				ressur a-level			Win	đ		Re	lati midi	re ty	ge of sunshine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage suns
Asheville, N. C., Augusta, Ga, Charleston, S. C Charlotte, N. C Columbia, S. C Greenville, S. C Savannah, Ga Wilmington, N. C Means and extremes	30, 00 29, 98 30, 00 29, 99 29, 99 29, 98 30, 00 29, 98	30. 25	15 15 15 15 15 15 15 15		18 13 18 13 13 13	5.9 10.1 10.0 5.9 7.5 9.7 8.7	18 37 32 22 32 32 32 27	nw. nw. n. n. ne. sw. nw. nw. nw.	13 25 6 6 6 24 1 6	71 68 70 64 72 75	46 45 58 42 43 43 50 52	49	80 77 88 77 77 74 75

#### Climatological Data for June, 1938.

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	A.79	7	record,	7	empera	ture.	in degr	ees F	anr.	2	Precij	itation.	In the		Num	ber	71	ys.	direction wind.	
Stations.	Counties.	lee .	of gars.	14	increase.	- 1		4		daily	96	normal.	ي €.	Total snowfall, unmelted.	With precipit on (0.01 in. or more)	×4	eloudy	<b>L</b>	ig di	Observers.
				ė		Highest.		Lowest.	÷	Greatest darange.	ı,	Departure f	Greatest i	al suc	in.o.	ar.	Partly cl	Cloudy.	Prevailing of	
	- 1/1 -0	Elev	Length	Mean	Depart	Hig	Date.	Lou	Date.	Gre	Total.	A P	Gre	Tot	Wir.	Clear.	Par	Clo	Pre	
Eastern Portion.		1			. 1	1						-14	-					1-	000	
Benufort (near)?? Bishopville	Lee	$\frac{21}{224}$	53	°79.3 78.6	+0.3	°100 100	†20	°55 51	16 16	°37 42	3.76	-1.44	1. 30 1. 83 1. 09	0	9 9	12 13 13	14 17 17	4 0 0	8. 8W.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews
Blackviiie Charleston Chernw	Barnwell	296 48 144	50 63 52	80.8 79.6 79.7	+2.2 +0.7 +2.5	105 99 102	20 5 21	52 59 50	16 15 15	44 27 38	2.82 2.72 1.84	$-2 65 \\ -1.87 \\ -3.34$	1. 30	0	13 4	12	10	8	sw.	U. S. Weather Bureau. Roland D. Powe.
Conway	Horry	25	45 39	78. 1 78. 6	+1.0+1.6	108 103	21 21	47 50	3 †15	50 34	2.15 4.15	$\begin{array}{r} 3.12 \\ -1.37 \end{array}$	1, 13 1, 70	0	7 6	25 20	0 7	5	sw.	Perry C. Quattlebaum. D. C. McCall.
Effingham Ferguson##	Darlington Florence Orangeburg	175 106 63	43 48	78.7	+1.4	103	6	49	16	45	3.24 2.65	-2.55 $-2.90$	1.30 1.37	0	5	19		 5	nw.	Win, B. Gillespie, Henry C. Savage.
Florence 1	Florence	136 136	52 19	78.1	0.5	100	21	50	16	41	6.30 3.90	+0.84 -1.56	1.96 1.30	0	6 7	23 17	6 13	1 0 0	sw. w.	H. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert.
Garnett	Hampton	82 54 68	16 52 9	678.8 80.4	0.0 +2.4	105 103	20 20 †20	<sup>6</sup> 48 46	16 16	<sup>6</sup> 45 49	1.91 2.12 4.21	-4.61 -3.17	0.72 1.35 1.18	0 0	8 6 7	12 20 22	18 1 4	9	s. sw.	Mrs. Ellen Scott. Dr. Charles B. Whilden.
Mars Bluff	Marion	92	10								1.96		0.57	0	8					Rosa R. Davis. J. E. Bryan, Jr.
Myrtle Beach Orangeburg Pinopolis**	Horry	264 54	19 87	79.0 \$72.3	+0.8 -3.9	892 99	20	51 £52	16 † 4	42	2.87 4.79	$-2.01 \\ -0.98$	1.16 1.50	0	8 8 6	14 12	10 13	6 5	s. ne.	H.S. Fisheries Station. Miss E. P. Ravenel. Marion P. Sweatman.
Society Hill	Sunter	97	20 43	*79.4	+2.4	*106	21	*47	16	°40	4. 98 1. 57	+0.22	0.68	0	6 7	16	13	1	n.	E D Eiglds Ir
Summerville Sumter Wedge.ield Vennssee		75 169	36 12 43	78.7 78.3	+1.2 +0.9	100 98 102	† 5 †20	49 49 51	16 16 15	37 44 44	6. 19 3. 12 1. 10	+0.51 -1.45 -8.62	2.95 0.97 0.68	0	9	19 13 25	6 9 5	5 8 0	11W. 11. SW.	Clemson Coast Exp. Sta Sunter Water Dept. W. Hampton Ramsey
	Hampton	249	45	79.2 78.6	+1.9	103	21 20	46	16	47	1.44	-4.73	0.45	0	7	23 17	9	5	s.	W. C. Hutson.
Division means and	extremes			78.7	+0.9	106	21	46	16	50	3.21	-2.17	2.95	U	(	17	9		311.	
Western Portion.			1	No. of											1				ne.	La contraction of
Afken		527 764	72 41	80.6 679.2	+2,9 +3.4	. 102 103	†20 · 20	51 53	15 15	38 542	1.05 4.04 1.83	-3.62 -0.29 -2.18	0.50 1.68 0.92	0 0	8 4	24 18	3 2	10		Frank B. McCoy. 11, 11, Russell. Sarah L. Owens.
Causars Head #1	Greenville	293 3H8 508	29 10 35	k69. 1 80. 0	+2.7	k95 103	21 †19	k.19 51	† 1 15	¥83 43	4.24 2.25	-1.61	2.07 1.02	0	5	9	14	7	w.	Casar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Campien	Kershaw	222 562	28	80.7	+2.9	104	20	50	3	42	1.64 2.60	-3.06 -1.64	1, 85	0						James C. Furis
Chappells	Spartauburg	402 758	29	76.8		100	†20	43	15		2.31 2.09	-1.41	0.90 1.03 0.83	0	10	28 21	2	0 9	 w.	William Spearman. Spartanburg Water Works. Prof. F. H. H. Calbonn.
Clemson College Columbia		· 850 351	47	77. 2 80. 2	+1.7 +2.1	102	20 20	47 55	†15 15	49 31	2.44 1.21	-2.96	1. 04	0	6	15	13	4	sw.	U S. Wenther Burenn.
Crescent		630 550 76	21 21						:::::		2.70 2.08 4.19	-1.58	1.85 1.05 1.50	0	4					Duke Power Co. J. C. Doscher. A. A. Foreman.
Ellenton Guston Shorts 11 Greenville	Cherokee	680 1039	31 50	78.8	+4.7	98	7	52	15		1.16	-3.28 -2.96	0.77 1.35	0	4		i2	4	n.	Southern Public Utilities. U. S. Weather Bureau.
Greenwood	Greenwood	671 568	50 32	79. 4 76. 8	+2.2	102 100	†19 20	49 50	2	41	1.80 2.19	-2, 13 -3, 02		0	5	14	8	8	е.	M. M. Calhonn, J. Murvin Bowers.
Landron	Spartenburg	500	18 19	78.5 78.9	+1.5	103 102 105	20 20 20	50 46 47	15	45	3, 61 2, 01 4, 89	$ \begin{array}{r} -1.27 \\ -2.82 \\ +0.61 \end{array} $	1.33 1.26 3.88	0	3	23	9	0	nw.	John W. Hamet. R. Hartwell Wilds, D.D.S. L. G. Roff.
Little Mountain	Newberry	711	41	79.4	1	105		48			2.81	-1.39		: 0	1					Miss Elberta Sease. Mrs. K. L. Burton. John H. Baxter.
Newberry	Newberry	850	30				22	47			1. 13 2. 67	-3, 03 -1, 44	1.20		) 4	1.4.	14	i	w.	John H. Baxter. Earl J. Frick. B. B. Blease.
Sallida Santuck	Sainda Union		32	78.6			†20 21	48	1	5 53	3, 45 0, 95	-1.15 $-3.10$	0.35		5	16	10.			W.O. Jeter.
Spartanburg	Spartauburg	. 620	41		+1.5	103	21	51 54 47	1 + :	2 40	1.97	-1.85 $-2.49$ $-1.75$	0.70	1	5 6	14	14	1 2	8.	U. S. Weather Bureau. Mrs. S. E. Long. H. W. Brandt.
Walbulla Wilmsboro Winthrop College II.	Fairfield	. 545	40	79.1	+2.9	101	1 6	51 48	1	5 36	3.29	-1.29	1.87		0 6		115	9 1	ne.	Rev. Oliver Johnson. W. T. Clawson.
Division means and	extremes			. 78.	V.			4:			1		1	1	0 8	100		Mari	3	
Section means and	extremes			78.	+1.1	106	21	. 43	3 1	5 53	2.74	-2.03	3, 88	1	0 6	6 17	9	9 '	sw.	774
011 3 6		1	1		14.41.			od on	lu for	ench e	tations	as have	tenor	more	year	sof	reco	rd, b	ntalle	complete reports are used in

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, by represents two days missing, etc. † Also on other dates. †† Received too late to be included in means and summaries. \*\* Temperature data are from observed readings of the day buth; means are computed from observed readings. ††Post-ofice addresses of these stations are as follows: Of Gaston bals. Rlacksburg: of Winthrop College, Rock Hill; of Ferguson, Entawyille; of Cesar's Read, Greenville; of Beanfort (near), Burton. \*\* Tercipitation is less than 0.01 inch of rain or meited show.

Dally Precipitation for June, 1933.

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throp College	Catawba												. 25																	.32		. 0.5	51
Except as otherwis	e indicated, obs	ervn	tion	SHE	gen	erall	y m	ade '	late	in t	he a	ftern	10011	nea	r sn	nset	. and	l pre	eini	tatio	in re	cord	ed is	for	the	24 1	mur	s en	ding	nt t	he tim	ie of	

Except as otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of beaveraion. Ill Precipitation measured in the non-init; amount then recorded is for the preceding 24 hours. \*\* Regular Weather Bureau station; precipitation is for the Liour period, midnight to midnight. \* Precipitation includes in the next following measurement. Separate dates of fulls not recorded. T. Trace, or less than 0.01 inch.

		Temper	ature			Prec	Initati	o.m	1	127			11											1			
		-				1100	TPILATI	OH .	, Y	Num	ber (	of Day	rs			Temper	ature			Prec	ipitati	on		Nun	ber	of De	ays
ear	Меап	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Mouthly	Average Snowfall	Precip61 inch or more	Clear	Partly Cloudy	Cloudy
7 8 9 9 G	77. 9 78. 1 74. 4 80. 9 75. 1 76. 5 77. 0 78. 2 77. 9 79. 7 79. 7 79. 7 76. 5 76. 7 77. 0 78. 9 77. 0 78. 9 76. 6 77. 0 78. 9 76. 6 77. 0 78. 9 76. 6 77. 0 78. 9	+0.5 +0.7 -3.0 +1.9 -0.4 +0.3 +0.5 +1.8 +2.3 +2.0 -0.7 +1.1 -3.2 -0.4 +1.5 +1.0 -0.8 +1.9	107 102 99 103  99 96 105 105 105 105 105 105 105 105 105 105	44 51 39 56  53 41 50 52 49 55 48 52 48 52 48 52 48 52 48 52 48 53 54 54 54 54 55 54 55 54 55 55 56 56 56 56 56 56 56 56 56 56 56	3.53 2.73 5.10 2.41 3.20 5.25 7.64 3.04 5.42 4.15 3.89 7.94 6.55 4.48 8.06 1.92 8.89 4.90 6.87 7.78	-0. 29 +3. 32 -0. 71 -2. 85 +4. 11 +1. 15 +0. 13 +2. 10	5. 51 6. 43 7. 84 5. 71 7. 96 11. 91 16. 50 9. 20 9. 20 7. 04 10. 45 11. 75 11. 68 8. 55 11. 92 8. 11 12. 38 9. 10 12. 42 12. 31	1, 92 0, 71 2, 29 0, 72 1, 12 2, 32 0, 25 1, 94 1, 38 4, 15 8, 60 1, 39 3, 95 0, 17 4, 28 2, 22 1, 08 1, 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 7 10 8 12 8 8 12 12 8 8 14 12 9 14 8 6 6 12 10 9 12 13	10 13 13 11 10 17 14 4 9 15 11 11 18 6 13 12 13 11 10 10 11 11 11 11 11 11 11 11 11 11	15 12 10 10 7	9 5 4 7 7 8 6 11 9 5 9 5 4 6 9 5 9 5 6 9 6 9 6 9 9 5 9 5 8 7 8 9 5 8 9 5 8 7 8 9 7 8 9 8 7 8 7 8 8 7 8 7 8 8 7 8 7	1912 1913 1914 1915 1916 1917 1918 1919 1921 1922 1923 1924 1925 1926 1927 1928 1929 1931 1931 1932 1933 1932 1933 1933 Period.	75. 5 76. 2 81. 1 76. 4 76. 9 77. 4 79. 2 77. 1 78. 7 78. 7 74. 9 75. 1 77. 8 77. 8 77. 8 77. 8 77. 8 77. 8 77. 8 77. 8	-1.9 -1.2 +3.7 -1.4 -1.0 -0.5 -0.4 -1.0 0.0 +1.8 +0.3 +1.3 +3.0 -0.2 -2.5 -1.4 +2.6 -2.3 +0.4 +0.2 +1.1	101 105 108 103 100 102 106 101 105 103 101 104 105 103 104 105 103 104 106 103 104	48 40 50 49 48 50 46 52 59 52 58 46 47 46 42 43 51 43	5. 68 5. 53 3. 80 4. 26 5. 12 4. 49 3. 44 2. 81 5. 12 8. 12 8. 12 8. 12 5. 5. 53 4. 40 2. 21 6. 30 2. 74	+0. 91 +0. 76 -0. 97 -0. 51 +0. 35 -0. 28 -1. 33 +1. 20 -1. 36 +0. 71 -2. 46 +0. 35 -1. 68 +0. 36 +0. 90 +0. 81 +0. 90 -0. 37 -2. 56 +1. 53 -0. 20 -0. 37 -2. 56 +1. 53 -0. 20 -0. 37 -2. 56 +1. 53 -0. 20 -0. 37 -2. 56 +1. 53 -0. 20 -0. 37 -2. 56 +1. 53 -0. 20 -0. 37 -2. 56 +1. 53 -0. 20 -0. 37 -0. 56 +1. 53 -0. 20 -0. 37 -0. 56 +1	8, 92 12, 05 7, 67 9, 68 10, 10 7, 69 11, 99 6, 57 5, 71 11, 76 6, 48 13, 02 7, 93 10, 72 11, 62 13, 94 11, 68 7, 67 6, 39 13, 33 6, 30	2. 44 1. 96 0. 26 1. 24 1. 76 1. 33 0. 27 1. 49 0. 76 0. 33 2. 62 0. 55 1. 04 T. 0. 90 2. 71 2. 46 2. 27 0. 11 2. 21 0. 57	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 12 8 9 11 8 7 7 10 6 6 6 11 8 8 10 8 8 11 10 6 6 6 11 10 6 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10	13 15 14 14 12 16 15 11 19 15 14 16 18 14 11 9 9 18 13 13 14 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	7 9 12 10 11 10 9 9 7 7 11 11 9 9 9 10 7 8 8 7 8 7 8 11 9 9 10 10 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	10 6 4 6 7 4 6 10 4 4 5 5 8 6 12 13 8 9 9 9
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Beaufort(near)   Maximum				96 67	100 75	95 70 98 69	91 8 70 6 95 9	6 88	86 78 8 86 1 74	89 78	88 74	89 70 86 69	74 61	79 56 76	79 55 81 51 86 52 76 62 86 50 88 48 83 50	80 9 57 6 98 9	1 6	8 90 7 78 8 100 9 67 4 105	89 72 100 72 101 8 70 93 7 76 102 68 103	91 97 197 197 198 199 199 199 199 199 199 199 199 199	92 9 73 7 89 9	90 88 5 7:5 91 9:5 97 9:7 97 9:7 77 7:7 77 7:7 76 7 9:6 77 7:7 76 7 9:6 77 7:7 76 7 9:6 76 7 9:6 77 7:7 76 7 9:6 77 7:7 76 7 9:6 76 7 9:6 77 7:7 76 7 9:6 76 7 9:6 76 7 9:6 77 7 7:7 76 7 9:6 76 7 9:6 77 7 7:7 76 7 9:6 76 7 9:6 77 7 7:7 76 7 9:6 76 7 9:6 77 7 7:7 76 7 9:6 76 7 9:6 77 7 7:7 76 7 9:6 76 7 9:6 77 7 7:7 76 7 9:6 76 7 9:6 77 7 7:7 76 7 9:6 76 7 9:6 77 7 7:7 76 7 9:6 77 7 7:7 76 7 9:6 77 7 7:7 76 7 9:6 77 7 7:7 76 7 9:6 77 7 7:7 76 7 9:6 77 7 7:7 76 7 9:6 77 7 7:7 76 7 9:6 77 7 7:7 76 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	8 922 702 912 722 913 710 924 710 925 746 1063 7166 922 7466 1063 756 922 7466 1063 757 757 757 757 757 757 757 757 757 75	90 68 93	70	92 75 90	76 92	69.3 89.9 67.8
Bishopviile Maximum	78 61	79 55	85 53 90	67 92 65 99	75 96 70 100 I	69 69	95 9 69 7 97 9	3 7	86 1 74 4 89	90 72 95	70 95	69 90	61	52 80	51	64 6 96 9	9 10 15 6 10 8 10 7 10 5 10 7 10 10 10 6	9 67 4 105	72 101	75 98	95 9	9 73	2 72 8 97	98 78 101	70 95	69 100 70	73 92	67.8 94.8 67.2
Blackviile Maximum Minimum	61 77	56 79	56 81	64 91	68	70 99	67 7 85 8	0 7	2 72 6 82	71 85 78 98	68 89	71 90	61 77 66	54 74 59	52 76 62	96 9 59 6 87 9 65 7 96 9 65 6	5 6 0 8 0 7 5 10	8 68 7 94 5 77 0 100	93	89 76	13 13 17	7 9	0 92 6 79	98	86 72	90 78	91	87.1
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Cherawi (Minimum Maximum Conway Minimum	78 60	78 53	86 47 85 51	97 56	99 62	101 67	94 9 63 7	98 9 73 6	8 70	5 78 6 90 0 67 5 98 8 72	95 71	67 66	78 60 74	77 49 76	88 48 83	94 9 54 6 92 9 63 6	62 9 64 6 63 9 66 6	7 10	69 103 71	71 96	67 6	67 7	3 7	72	69	71 95	71 94	64.4 91.1 66.2
Dariington M   Maximum Minimum				- 1		- 1				1					- 1			10	1	- 1		93 9			1	97	90	92.3
Ferguson 1/4   Muximum   Minimum	90 59 73 61 79 61 79 60 78	80 53	92 50	99 58 93	97 68	103 1 58	65	95 9 71 6 95 9 63 6 95 9 65 6	5 9 8 7: 0 9 6 7: 11 9: 18 7	1 92 2 65 0 91 3 73 2 98 1 76 4 9 3 69 9 9	87 69 1 94 3 72 8 96 70 9 71 9 71 9 95	88 69 85 68 92 65 88 69 85	72 62 73 60 76 62 78 63	76 52 75 51 78 53 78 51 78	82 49 83 50	90 9 56 6 91 9 61 6 93 9 53 6 95 95 9	95 9 60 6 95 9 65 6 96 9 68 6 97 9 63 6	64 70 96 99 55 70 99 10	98 0 69 9 100 0 70 2 95	95 70 96 74 99 67 101 72 100	92 69 90 69	93 9 69 7 90 9 68 7	4 95 1 7 6 9 3 7 . 6 9 8 9 9 9 9	2 100 4 75 6 96 1 7: 8 95 7 7	97 3 72 6 91 1 72 8 99 1 69 1 95 4 70	78 92 69 96 70 95 75 95	72 95	65.1 90.5 65.7
Florence 1 Maximum	61	58 74 54 81 57 79 54 76	50 83 52 87 53 87 49 86	61 98 57	68 95 66 100	58 99 69 99	65 94 65 98	63 6	6 7: 1 9:	3 78 2 98	72 96	68 92	60 76	51 78	50 84	93 9	65 6 96 9	55 76 99 10 54 6	95 5 68				. 9	8 9	99	96 70	96 78	b93.2
Garnett   Maximum   Minimum   Minimum   Miximum   Miximum   Miximum   Minimum   Mi	61	57	53 87	57 98 60 96	65 100 69 99	70 101 72 100	68 96 164 94	95 9 65 6 01 10 74 6 96 9	8 7 0 9 9 7	1 70 4 9 3 69	70 1 97 9 71	88 69	78 63	78 51	48 88 46 85	95 55	97 9	54 6 98 10 59 7 98 10	5 68 5 103 1 72 3 103	10f 72	68 95 70 93	95 9 70 7 95 9	8 9 9 9	9 10 4 7 9 9	1 95 4 70 7 95	95	96 74 86	94.4 66.5 92.5
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Orangeburg   Maximum	. 81 . 61			96 60	98 69 99	98 70 101	69	71 7	01 8 11 7 08 8 39 7	8 9 7 5 9	1 89 1 68 2 94 2 72	89 70 85 67	78 63 75 59 76 64 73 61 75 59 79 63	75 55 79	81 51 87 47	91 59 97 65 92 55 92 60 94 61	95 63 94	98 9 66 7 99 10 66 0	4 106	101		72 95 65 94	91 97 71 77 99 99 70 77 94 99 71 77 96 96 71 77	2 9 9 7 7 8 100 2 7 7 9 9 1 6 9 9 9 1 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5 94 3 76 0 99 2 6 1 9	93 72 9 100	91 73 96 71	66.9 93.7 65.1
Society IIII   Maximum   Minimum   Minimum   Minimum   Minimum   Maximum	. 51	50 75 50 81 51 51	1 49	59 97	100	62	65 96	95 9	19 7 192 8	3 7 5 9 4 7 17 9 14 7 17 9 14 7 17 9	2 72 0 92	67 89	59 76	50 77	47 83 49	65 92		66 0 88 10	0 98	75 97 69 96	69 97 71	94 71	94 9	7 9	9 7	1 96	93 72 94	91.8
Summerville M	. 81	51 79	5 50 9 87 4 51	60 95	70 96	70 97 68	65 91	71 94 66	57 7 93 8 71 7	4 7 37 9 74 6	0 92 0 69 1 90 9 69	89 70 84 68	78 61	74 51	81 49 84 57	92 60	93 61	98 10 67 7 97 9 66 6	9 70	96 73	91 71	93 9	96 9	3 9	0 6	5 95 9 71	94 72 95 .	90.7 65.9 92.3
Wedgefleid Maximum	- 78	5 8 5	0 88 5 53	60 95 62 97 64 97 59	67 98 67 99 66	62 99 70 97 68 99 69 98	65 96 65 91 66 94 67 96	99 71 95 71 94 66 98 71 93	57 77 93 8 71 7 94 9 72 7 91 8	7 9 15 9 14 7 17 9 17 9 17 9 17 9 17 9 17 9 17	2 94 9 68 4 93 1 69	68 91 70	75 59	79 50 77 53 74 51 77 51 79 49	84 57 84	94 61	94 1 68 97 1 68	68 6	1 102 59 70 13 96 57 69	73 98 72 96	71 94 71 91 70	71 93 67 98 60 96 68	69 94 70	11 6 13 9 11 8 11 8 10 7 10 7 10 7 10 7 10 7 10 7 10 7 10 7	9 71 6 90 6 60 6 60 7 9 6 6 7 9 7 7	9 100 7 69 11 96 8 72 8 95 9 71 4 95 9 72 7 97 0 76	95 72 96 73	66.1
Yenussee	66	9 8 0 5	1 86 4 52	97 59	99 66	98 66	96 66	66 66	69 7	2 7	1 69	70	63	49	46	93 53	63	63 6	69	66	70	68	70 (	59 7	70 7	0 70	73	64.0
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Atken Minimum. Muximum. Auderson Minimum.	8	4 8	3 9. 4 58	97	96 67 82	99 72 98 70	100	99 77	73		9 9 6	5 83 9 68	61 3 76 5 57	82 53	56 88 55	97 65	67	70	69 70	70	71 72	66	84 66 74 58 85 68 96 70	70 83 69 71 59 85 78 97 1	69 7	8 75 8 9 11 7 16 7 13 6 98 9 70 7 98 9	72 . 5 78 . 8 64 .	
Caesar's Head   Maximum	7	9 4	9 5	97 6 62 7 75 0 52 1 98 5 60	82 60 97	80 61 99 72	82. 65 98	64 101	95		90 9	2 8	6 78	80	84	95	100	103 1	90 95 75 70 03 100 69 67	100	71 72 63 96 78 96 72	59 90 70	58 85	59 85 78	62 6 92 9 75 7	13 6 98 9	8 64. 7 97. 0 70.	93.0
Calhoun Falls   Maximum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum	5	8 5 0 6 9 4 6 8 7 5	3 58 3 9. 4 58 61 7: 19 56 9 57 51 78 9: 57 5	5 60	101	102	65 98 68 97 70	72 100 69	95 73 95 69	69 93 71	90 9 72 6 97 9 72 7	9 69 7 89 0 7	9 59 9 79 0 60	51 80 52	52 90 59	61 96 59	62 99 67	100 1	04 103 67 70	72 100 73	96 72	96 72	96 70	97 1 71	01 9 72 7	98 9 71 7	97 0 73	66. 9
	- 1	- 1		1	1 !	73 96	98		97	- 1		4 8	5 76	77			07	99 1	00 100	99	90	87 69	00 88	86 69	95 68	95 9 69 6	5 95. 8 70. 2 98.	91.6
Cherokee (near)   Maximum   Minimum   Maximum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Maximum   Maximum   Minimum		79	50 5 81 8	1 5	59 5 93 9 61 5 95	64 95 69 97	64 99	66 98	69 92	71 85 69 84 74	67 6 91 9	4 8 7 6 5 8	5 77	79 47	86 47	93 63 96 60 94 63	100	62 100 1 65 99 1	63 62 02 101 64 65	100 66	92 69	91 67	63	86 69 87 65 93 71	91 67	93 9 67 6	9 79	68.6
Columbia Minimum Maximum Minimum Minimum Minimum		19 76 62 76 62	80 9 50 5 81 8 48 5 80 8 56 5 81 8	1 5 7 9 1 5 7 9 7 6 9 9	95 6 69	97 71	64 99 68 96 69 98	98 66 98 69 96 73 97	92 69 90 73	84 74	87 9 67 6 91 9 68 6 89 9 73 7 85 9	10 6 10 6 11 6	3 54 5 77 5 54 7 77 38 61 32 74	77 43 79 47 78 1 55 4 78 5 52	45 86 47 86 57 85	94 63	97 70 94 74	78 98 74	70 76 97 98 75 75	66 96 76 97	90 70 92 69 92 73 91 72	91 67 95 70 88 66	90 65 84 63 92 71 84 66	71 81 68	95 68 91 67 98 74 91 69	95 9 69 6 93 9 67 6 94 9 72 5 92 9	5 95 . 8 70 . 92 93 . 99 79 . 95 93 . 75 . 75 . 76 . 77 .	62. 91. 63. 91. 68. 89. 68.
Greenville   Maximum .		76 62	56 5 81 8 59 6	9 9			98 73	- 1	94 75	1		- 1	1	ì		93 66		- 1			72 94	- 1	- 1	- 1				
Greeuwood   Maximum Minimum.	::	83 57	80 S	1 9 4 6 6 9	8 97 0 67 3 95 5 67	97 71	100 66	101 72	94 73	71	89 70 90	95 8 67 6	87 79 88 5	9 80 8 49 8 78	50 83	94 61 94	68 92	69	102 10 70 6 100 9 67 7 103 10	69 89	69	71 88	67 88	69 88	70 94	71 92	71 72	65. 88. 64.
ifeath Springs   Maximum   Minimum   Maximum	.::	74 55	50 5	36 9 52 6 39 9	5 67 7 96	97 71 71 96 70 8 99 4 66 5 97	92 64 96 63	72 93 65 100	71 97	71 82 70 88 69 87	68 93	65 6	87 75 88 55 80 75 86 5 85 7 64 5	8 49 3 73 7 57 4 78 7 56 8 86	55 87	61 94 63 96 62 95 66	100 68 92 68 96 65 97 66	65 100	67 7 103 10 64 6	9 69 89 1 74 1 100 4 75	91 66 95 71	95 67	87 67 88 64 92 69 87 65	90	98 74	97 71	95 92 70 72	92. 64.
Kershaw		55 76	52 83 54 83	52 6 93 9 52 7	8 97 0 67 3 95 5 67 97 98 98 99 99	66	63 100	64 101	73 92 71 97 67 98 72 98	69 87 69	67 90 67	95 867 668 668 699 868 687 688 688 6899 868 6899 868 6899 868 6899 868 6899 868 6899 868 6899 868 6899 868 6899 868 6899 868 6899 868 6899 868 6899 868 6899 868 6899 868 6899 868 6899 868 689 869 86	77 79 88 51 88 75 86 5 76 84 77 5 87 75 67 5	8 80	87 50 83 7 55 87 55 87 55 87 52 87 87 87 87 87 88 87 87 88 87 88 87 88 88	95 66	97 66	100	102 10 67 6	1 100	95	93 71 88 66 95 67 88 69 93 71	87 65 89	87 69 88 69 90 70 91 69 87	95 70 94 71 98 74 96 70 95	97 71 92 68 97 71 96 71 97	98 102 71 72 94 88 68 70 95 92 70 72 95 94 69 70 97 96 72 72	98. 65. 88. 64. 92. 64. 92. 65. 93.
Landrum   Minhum   Maxhum   Laureus   Minhum		57 74 55 77 55 76 55 81 57	54 83 56	52 91 52	1 69 99 97 30 7	7 99 1 68	66 101 69	100 72	98 69	69 88 71	67 91 68	97	1		1	1 1	100 63	68	69 7	0 72	71	i l	66	69	- 1		1 1	
Little Mountain   Maximum Minimum.		80 60	79	89	98 9	1	93 64	98 68	91 67	89 68	91 68	90 66	85 7 65 5	4 7 5 4	7 84 8 53	94 60	96 68	100 70	102 10 70 7	5 100 4 68		94 68	90 65	88 62	99 68	98 69	99 96 69 71	92. 64.
Long Creek / Maximum		-		::::::		1				···· :		•				96	99	102	108 10	3 104		100	91	81	97	99	97 97	93.
Newberry Minimum		80 55	EO	50	99 9 59 6 96 9	7 99 1 61 6 90	99 65 99	101 66 99	96 63 94	88 60 88	69 88 69	66 84	84 66 80	79 8 56 4 75 7 51 4	8 41 8 81 8 51	68	99 62 97 64	66 100 65	66 101 68	9 76 11 99 11 74 16 100	93	67 93 69	91 66 93 69 96 63	81 66 92 72	97 68 99 72 99 71	70 100 72 100	97 97 68 71 99 94 72 72 99 100 69 70	93. 63. 91. 65. 94.
Saluda   Maximum Minimum   Maximum		55 77 54 79 57	80 57 81 48	87 58 90 49	99 9 59 6 96 9 58 7 98 9 57 5	0 6	67	68 101	94 68 98 66	72 87 71	69 92 68	72	59	51 4 77 8 59 4	8 50 0 81 3 4	97	100 59	103 62	103 63	6 10	71 94 1 68	94	96 63	72 90 70	99 71	70	99 100 69 70	
Santnek Minimum		- 1	48	90	94 8	1	1	1 1	98	85		93		- 1	7 8	1		1 1			89	85 70	87 67 92	84 69	94 70	93 71	94 94 72 72	90
Spartanburg   Minimum		81 56 80	57 82	57	64 6	93 99 57 66 57 9 70 7 64 9 51 6	9 68	99 72 98 67 98 65	72 94 69 95 65	74	86 71 94 70	68	68 69 88 63 83	54 5 78 7 65 6	2 5 8 8 9 5 10 8	5 98 1 65 4 94 4 60 7 95 8 56	97	100 72	100 1	03 10 78 7	4 71 0 96 4 71 0 99 7 60 7 7	70 96 69 85	66	91 68	95 70	95 71	72 72 93 93 69 71 94 94 67 67 99 97	90 66 92 67 91 60 92 67
Waihalla Minimum		59 78 49	54 80 47	90 51	94 9 68 7 96 9 56 6 99 10 65 6	70 7 04 9 51 6	8 96 2 65 5 99 5 66 1 97	98	95 65	82 67	89 68	67 95 64 92	63	77 8 52 4	17 4	95 9 56 9 56	63	103 63 99	61	01 10 64 6 01 9	9 99	8 85 7 65 8 94	£3	64 90	64 98	67 95	67 67 99 97	92
Winnsboro W Minimum		80 59 78 49 77 59 78 56	57 82 54 80 47 80 55 77	90 51 90 54 90	99 10 65 F	10 16 6	9 67	100	0.4	70 82 67 87 74	70 89 68 91 71 95 67	92 68 93 66	83 67 82 65	74 77 54 5 78 5 65 6 77 8 552 4 78 78 5 78 78 5 78 5 78 5 78 5	8 8 8 5 80 8 17 4 76 8 51 5 77 8	6 97 3 64 8 96 6 65	97 72 97 67 99 63 97 67 97 67 97 67	71 100	108 1	75 7	6 9	9 67 9 67	86 62 69 69	69 91 68 84 64 90 70 90	94 70 95 70 91 64 98 72 100 70	71 95 71 98 67 95 70 99 70	94 94 72 72 93 98 69 71 94 94 67 67 99 97 71 75 96 94	93
Winthrop College   Maximum		56	77 51	90 53	90 9 62 6	96 9 63 6	7 97 3 66	70 101 68	71	70	67	66	65	57	4R 8	65	66	66	69	70 7	3 6	9 67	P.0	10	,,,	,		
	1	1						1			1	1		1	1	1	1	1			1	-	-			-		2/4

Reference letters (\*, b, s), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

# Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W B O, Raielgh, 7-26 33-900

THE FIRHAUL OF HE AUG 31 1933

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU,

CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## SOUTH CAROLINA SECTION.

RICHARD H. SULLIVAN. Meteorologist.

or. XXXVI. COLUMBIA, S. C., JULY, 1933.

#### GENERAL SUMMARY.

Precipitation, though very badly distributed, averaged mewhat below normal, and the monthly mean temperature jured by lightning; their dwelling was damaged about \$1,000.

as considerably below the average.

The rainfall was generally insufficient, especially upate, during the first decade, followed by intermittent uiting freely, although the rather sappy condition of plants ranged fairly close to normal. many sections was favorable for increasing weevil activity; e first open boll was observed near Parler, Orangeburg ounty, on the 20th, or 7 days earlier than normal. Tobacco ring proceeded throughout the month. Small grain threshg was finished about the 10th. Corn, sweet potatoes, truck, anuts, and pastures and meadows became vigorous in most ctions as the month progressed; however, some upland st week.

#### TEMPERATURE.

above. The lowest temperature was 48° at Santuck on the to the hurricane of August, 1893, being broken. h. Notable cool periods were from the 4th to the 7th and om the 12th to the 17th, when the daily means ranged from to 13° below normal.

#### PRECIPITATION.

The average for the Section, 52 stations reporting, was 15 inches, or 0.65 inch below normal. Precipitation ocurred in four periods. Distribution was very poor, there ing over 12 inches in sections of Horry County, less than 2 ches in a narrow area from Aiken County eastward to outhern Clarendon County, and less than half an inch in stern Orangeburg and southern Clarendon Counties. The eatest local monthly amount was 12.52 inches at Conway; ast local monthly amount, 0 45 inch at Ferguson. The eatest amount during any 24 hours was 4.10 inches at amden on the 19th and 20th. The average number of rainy ivs was normal.

Killed, Injured, and Damaged by Lightning. -1st, Mr. Baxter Gardner was killed by lightning on a farm north of Cheraw, and Mr. Robert McDougall was injured; the barn in which they had taken shelter was fired by lightning and burned, with a loss approximating \$500. On the same date a mule valued at \$150 was killed by lightning near Trenton. 3d, Mr. G. G. Byers was badly shocked by lightning near Laurens during the afternoon. 17th, afternoon, 4 members of the family of Mr. S. O. Hook, living near Lexington, were in-

#### RIVER CONDITIONS.

Minor floods occurred in the Santee River at Rimini on nowers, with corresponding improvement in growing condi- the 1st and 2d, from the 13th to the 16th, and from the 22d ons for all crops. Cotton made good progress, blooming and to the 24th. Otherwise, the stages in the remaining streams

#### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Columbia, 1, 2. Solar: Columbia, 19. Fog, dense. - Bishopville, 22; Mars Bluff, 19, 20; Spartanburg, 18; Walhalla, 28.

#### COMPARATIVE JULY DATA, BY COUNTIES.

The highest average temperature for this Section to the ops had already suffered materially from lack of rain. Plow-close of 1930 is 81.5° in Allendale County, and the lowest, g conditions for late corn, forage, and other late crops were 74.9° in Oconee County. The greatest daily range is 22.2° uch improved, with good germination of earlier plantings. in Cherokee and Spartanburg Counties, and the least, 17.1° he marketing of peaches, plums, truck, and all kinds of in Charleston County. The absolute highest July temperature of 109° occurred in Greenwood County, and the lowest July elons was active, and the cantaloupe season closed during the temperature of record was 40° in Greenville and Pickens Counties.

The greatest total monthly rainfall of record for any month and for any station was 31.13 inches in Williamsburg The monthly mean for the Section, determined from re- County (Kingstree), and the greatest 24-hour amount of reorts of 40 stations, was  $78.8^\circ$ , or  $1.0^\circ$  below normal. The cord for any month and at any station was 13.25 inches in ghest temperatures were 103° at Santuck on the 2d and at Florence County (Effingham); these tremendous rains were ghest temperatures were 103° at Santuck on the 2d and at measured principally during the hurricane of July, 1916, sout the 10th, on the 23d and 24th, and about the close of curred, many crests of the great flood of August, 1908, being e month, when the daily means ranged from near normal to overtopped and many total monthly rainfall records incident

> The average date for the first open cotton boll observed is July 27

PRESSURE WIND HUMIDITY AND SUNSHINE

	Atr (re	nosphe luced	ric j	oressur a-level	e ()		Win	ıd		Re	elati mid	ve ity	of
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage c
Asheville, N. C., Augusta, Ga, Charleston, S. C. Charlotte, N. C. Columbia, S. C. Greenville, S. C. Savannah, Ga, Wilmington, N. C. Means and ex. } tremes		30.24 30.24 30.35 30.30	4 4 4 4 4	29. 78 29. 74 29. 78 29. 77 29. 74 29. 75 29. 80 29. 79 29. 74	11 11 11 11 11 11 12 12	5.9 5.7 9.7 9.5 6.6 7.4 8.9 8.5	30 32 30 31 25 34 27 30	e. ne. ne. nw. ne. nw. nw. nw.	3 3 3 3 2 3 17 3	84 83 80 80 82 80, 84 84 84	54 56 68 53 55 54 64 67	69 68 82 62 67 65 82 82 72	69

#### Climatological Data for July, 1933.

					Cli	mato	logica	al D	ata f	or Ju	ıly, 1	933.								
			record.	Т	empera	ture, i	n degr	ees Fa	hr.		Precip	itation.	in inch	es.	Num	bero	f da	ys.	direction md.	
stations.	Comuties.	on, fee	Length of rec	Меап.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipition (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
Eastern Portion.						1	1				1				B					
Beaufort (near)‡‡ Bishopville Blackviiie Charleston Cheraw	Beaufort Lee	21 224 296 48 144	53 50 63 52	79. 4 77. 2 81. 2 80. 3 79. 3	-2 0 -0.0 -1.1 -0.6	98 93 101 97 98	3 1 †28 3 † 2	58 56 58 61 55	5 5 4 5	39 28 39 27 34	5.77 7.47 1.84 8.12 4.52	-0.44 -3.76 +1.23 -1.50	1. 25 1. 44 0. 62 2. 38 0. 97	0 0 0 0	11 15 11 12 12	8 15 9 8	15 11 20 12	8 5 2 11	s. sw.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway Darlington Effingham Ferguson‡‡	Horry Darlington Florence Orangebarg	25 175 106 63	45 39 43 48	78. 5 78. 4 	-1.4 -1.5 +0.2	98 96 98	1 31 + 9	51 53 52	5 5 5	38 33  35	12.52 3.20 5.88 0.45	+5.91 -2.31 -0.23 -6.43	3, 86 1, 00 1, 59 0, 24	0 0 0 0	14 11 11 3	16 17 	0 11 6	15 3 	sw.	Perry C. Quattlebann. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1	Florence	136 136 82 54 68	52 19 16 52 9	79. 6 679. 4 80. 6 179. 2	-1.7 -1.7 +0.2	96 b103 100 96	3 31 † 1	54 58 53 160	5 4 5 16	34  b45 36 126	5. 98 6. 70 6. 80 5. 87 6. 19	+0.14 +0.86 -0.44 -0.65	2.28 3.00 2.04 1.70 1.68	0 0 0 0	9 8 18 10 14	17 19 3 20 21	12 10 23 1 7	2 5 10 3	sw. sw.	11. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Mrs. Ellen Srott. Dr. Charles B. Whilden.
Mars Bluff Myrtle Beach Orangeburg Piuopolis** Rimini	Florence Horry Orangeburg Berkehy Sumter	92 30 264 54 97	10 2 19 87 20	79.6	-0.6	96	3	57	6	35	5. 61 3. 35 3. 82	-3,29 -3,28	1.60 1.47 1.55	0	13 11 	9	11	ii	s.	Rosa R. Davis. J. E. Bryan, Jr. U.S. Fisheries Station. Miss E. P. Ruvenel Marion P. Sweatman.
Soriety Hill Summerville Sumter Wedgelield Vennassee	Darlington	192 75 169 249 24	43 36 12 43 45	*80.4 79.6 78.8 78.8 79.1	+0.8 -0.3 -0.9 -0.6 -1.5	°101 100 96 96 101	10 3 † 1 † 1 3	°50 57 53 57 57	† 5 5 5 4	°48 41 38 32 44	4.59 4.94 2.68 6.92 4.42	$ \begin{array}{r} -1.80 \\ -2.08 \\ -2.41 \\ +1.84 \\ -2.83 \end{array} $	1. 15 1. 09 0. 53 3. 40 1. 40	0 0 0 0	11 12 13 10 13	16 16 7 22 20	12 5 15 5 2	3 10 9 4 9	n. e. s. w. se.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sunder Water Dept. W. Hampton Ramsey W. G. Hulson.
Divising means and	extremes			79. 4	-0.8	103	3	50	4	48	5. 35	-1.07	3.86	0	11	14	10	7	sw	
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Cutuwbu Clumppells Cherokee (near) Clemson College Columbia	York	562 402 758 850 351	29	76.6 76.7 79.4	-1.5 -1.5	98 94 96	2 3 1	50 49 59	5 5 5	40 44 30	4.11 4.02 4.14 9.72 2.92	-1.70 -1.20 +4.56 -2.43	1.45	0 0 0 0	13	23 11 11	7 18 9	1 2 11	w. sw.	James C. Faris. William Spearman. Spartaniburg Water Works, Prof. F. H. H. Callonic. U. S. Weather Burean.
Crescent. Edgelleld Ellenton Gaston Shoals [] Greenville.	Spartanburg Edgefield †† Aiken Cherokee	76	21 2 31	77.2	+0.3	96	2	58	4		5. 97 4. 85 5. 72 3. 30 3. 07	-1. 18 -1. 35 -2. 29	1,97	0 0	6 10	7	15		s.	Duke Power Co. J. C. Doscher. A. A. Foreman. Southern Public Utilities. U. S. Wenther Bureau.
Greenwood	Kershaw	1069	32 18 19	79. 2 77. 2 78. 6 77. 6 *78. 8	$ \begin{array}{c c} -1.9 \\ -0.8 \\ +0.1 \end{array} $	97 97 97 99 99	†15 † 1 † 2 2 1	53 54 52 51 a52	5 5	37	3.85 2.52 5.04 4.56 5.56	-1.36 -2.49 -0.52 -2.28 +0.39	0.80 1.51 1.70	0	12 7	17	0 8 1 14 11	2	W. NW. W.	M. M. Calhonn, J. Murvin Bowers, John W. Hamel, R. Hartwell Wilds, D.D.S, L. G. Roff.
Little Mountain Long Creek Newberry Pelzer Salnda Sautuck	Newberry Oconee Newberry Anderson Salnda	71: 1006 500 856 530	0 2 30 3 30 6 32	77. 2	-2.8 -2.9 -1.6	99 100 99 103	1 1 2 2	53 52 *55 48		39	8. 74 6. 65 5. 44 5. 75 5. 80	+1.94 +0.09 +0.68 +0.71	2.15 1.30 2.50		13	9	18	4	sw.	MIss Elberta Sease. Mrs. K. L. Burton. John H. Baxter Earl J. Frick. B. B. Blease. W. O. Jeter.
Spartanburg Trenton Walhulla Winnsboro Winthrop College II.	Spartauburg Edgefield Ocouee Fairfield	. 82 62 106 54	0 41 1 34 5 40	78. 8 75. 9 79. 7	-1.3 -1.3 -0.1	98	2 31 2 1 2	1	5	5 34 5 41 5 37 5 39	5. 67 7. 39 4. 02 5. 09 4. 79	-1.9 -0.0 -0.3	5 2.20 4 1.90 8 2.67 9 1.14		n 15 0 15 n 15 0 15 0 15	2 10 1 17 2 4 0 10	2	5	se.	U. S. Weather Bureau. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division means and Section means and			- 1	78.2			† 2	4:		5 44 5 48	5. 16	1	1	1	0 1				s sw.	

The departures from the normal temperature and precipitation are computed only for such stations as have ton or more years of record, initial complete reports are used in determining section or division means. Reference letters (6, 5, 6), appearing in the tuble indicate number of days missing; for example, by represents two days missing, etc. 4 Also on other dates. If Received too late to be included in means and summaries. "Temperature date are from observed readings of the dry bulb: means are as follows. 6 Gastoni Shoals, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawville; of Caesar's Head, Greenville; of Beaufort (near), Burton. Tereipitation is less than 0.01 inch of rain or melted snow.

Daily Precipitation for July, 1933.

																Day.	ol m	onth	١.														
Stations.	Drainage- basins.	1	2	8	4	5	6	7	8	9	10	11	12	18	14	15	16	17	la	19	20	21	22	23	21	25	26	27	28	29	80	31	Tota.
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ear	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip01 inch or more	Clear	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precip61 inch or more	Clear	Partly Cloudy	Cloudy
334557	82.0 78.9 79.5 78.9 82.0 77.7 78.9 82.0 77.7 79.5 80.0 80.0 81.2 81.4 80.4 79.4 80.4 79.4 81.4 80.4 79.4 81.4 81.4 81.4 79.8 81.4 81.4 81.4 81.4 81.4 81.4 81.4 81	+2.2 -0.9 -0.3 -1.4 -1.9 -0.9 +2.2 -2.1 -0.3 +0.9 +0.4 +0.2 +1.4 +1.6 +1.6 -0.4 +0.6 -0.1 -1.6	110 108 102 104 93 102 104 100 102 105 107 102 105 104 102 107 103 105 101 100 106 100 100	60 533 511 52 56 51 60 55 54 54 54 54 47 55 60 60 60 56 60 55	7, 49 3,68 5,13 6,88 5,744 3,87 8,24 4,17 5,01 7,81 4,08 4,59 3,59 5,96 6,40 5,06 5,43 4,92	+2.60 -0.74 -0.37 -0.88	6. 60 5. 73 10. 89 9. 21 15. 32 18. 47 7. 75 17. 31 8. 20 15. 72 9. 81 12. 99 10. 16 11. 29 13. 25 9. 62 8. 54 14. 29 17. 77 9. 01 11. 15 9. 58	4. 13 1. 50 2. 70 3. 37 2. 81 3. 00 1. 35 3. 59 0. 73 3. 42 1. 67 4. 72 4. 72 1. 58 1. 05 1. 44 1. 40 1. 2. 28 1. 40 1. 2. 28 1. 31		16 8 13 11 14 9 9 10 9 8 12 12 16 11 12 10	13 1: 13 1: 5 1: 13 1: 12 1: 13 1:	4 4 4 4 4 4 4 4 4 4 5 5 6 6 8 2 2 6 6 8 2 9 6 8 7 7 9 9 8 8 2 6 6 6 6	1912 1913 1914 1915 1916 1917 1918 1919 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1930 1931	77. 5 79. 3 78. 9 79. 6 79. 9 79. 0 78. 6 81. 5 80. 5 78. 3 79. 5 77. 8 81. 9 82. 2 82. 6 78. 8	-0.2 +2.1 +0.2 +1.1 -2.0 +0.1 -2.3 -0.5 -0.9 +0.1 -0.8 +1.2 +1.7 +0.7 +0.7 +0.3 -2.0 +2.1 +2.4 +1.7	102 109 107 106 99 102 103 103 102 101 101 104 103 106 108 104 100 100 100 100 100 100 103	58 56 53 55 60 52 50 51 58 56 56 45 55 58 49 48	5. 22 4.78 5. 16 8. 26 14. 69 6. 56 5. 02 8. 86 5. 7. 44 7. 20 4. 59 3. 19 6. 24 6. 81 4. 35 4. 80 5. 35 5. 37 4. 51	+0.76 -0.78 +3.06 -0.20 +1.64 +1.40 -1.30 +1.13 -2.61 +0.44 +0.58 +1.01 -1.45 -1.00 -0.45 -2.06	9, 70 16, 52 12, 23 17, 17 12, 58 8, 88 17, 03 13, 95 10, 98 13, 78	1. 46 1. 15 0. 78 1. 07 5. 73 2. 26 1. 15 3. 48 2. 25 0. 30 2. 40 2. 40 2. 36 1. 15 0. 30 2. 40 2. 40 2. 30 2. 40 3. 50 3. 50 50 50 50 50 50 50 50 50 50 50 50 50 5		111 9 9 8 17 122 11 13 11 14 13 9 12 6 10 13 11 10 9 10 8 11	14 15 14 18 5 14 15 13 13 9 12 15 14 12 15 14 12 15 15 14 11 12 15 15 14 11 15 15 14 11 15 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	10 9 13 10 12 9 8 10 13 13 13 8 9 11 10 11 8 12 8	77 44 8 14 8 8 7 10 8 9 6 8 8 8 5 7 7 8 8 6 6 7 5 4 8
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Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example. \* represents two days missing, etc. 
% Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs. 
WBO,Raleigh, 8-24-33-900

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

33

R. H. SULLIVAN.

Vol. XXXVI

COLUMBIA, S. C., AUGUST, 1933.

#### GENERAL SUMMARY.

Precipitation averaged much below normal, but was oadly distributed. Temperatures ranged somewhat above normaì.

The rainfall was more or less scattered until about the niddle of the month, followed by two series of extended showers. Intermediate and late corn, sweet potatoes, truck, orage, and lesser crops responded materially to improved noisture conditions as the month progressed. Late corn and orage planting was completed by the 10th, and later rains improved germination. Pasturage for dairy cattle and other progress generally. Tobacco curing was practically finished by the 23d. The cotton erop had matured in the central counties and the low-country by the 15th, and in the upcountry by the close of the month; the first bale was ginned n Orangeburg County on the 1st, or 9 days earlier than nornal, and the crop opened rapidly throughout the month, with picking and ginning active. Watermelons, plums, peaches, grapes, and truck marketing progressed, and fall apples appeared on market about the end of the month.

occurred in Abbeville, McCormick, Edgefield, Barnwell, Bamberatures ranged from 5° to 7° above normal. The lowest emperature was 58° at Clemson College on the 7th and at Walhalla on the 7th, 8th, and 30th. The cool position 30th and 31st, when the daily mean temperatures ranged 24-hour amount was 13.22 inches in Clarendon County The average date for the first cotton bale ginned

#### PRECIPITATION.

The average for the Section, 52 stations reporting, was .71 inches, or 0.99 inch below normal. Showers occurred n three fairly well defined periods, the rains being recorded ilmost daily after the 10th. The total monthly amounts were oadly distributed as to areas and amounts, with 6 to over 10 nches in the north-central counties and along the coast, while n the remainder of the Section the measurements ranged lownward from 6 to less than 2 inches. The greatest local nonthly amount was 10.14 inches at Santuck; least local nonthly amount, 1.02 inches at Florence No. 2. The greatest 4-honr amount at any station was 6.25 inches at Little Aountain on the 26th. The average number of rainy days vas normal.

Killed and Injured by Lightning .- 2d, early night, young aughter of Mr. Hoy Thompson, north of Laneaster, near he State linc. 26th, Mr. Thomas Thomas and Ben Camp-ell, negro, near Mount Pleasant; a brother of Mr. Thomas LILHARY L.

vas injured.

Drowned by Wind Squall .- 26th, between 4 and 5 p. m., Mr. Medrian Crosby was drowned near Grady's Landing, on the Okatee River, below Ridgeland; a boat in which he was fishing was overturned by a wind squall.

Damage by Lightning. - 1th, afternoon, a large frame negro schoolhouse at St. Paul was fired by lightning and burned, with a loss of about \$2,000. 4th, 7 p. m., a church tower in Winnsboro was damaged about \$500 by lightning. 12th, 7 p.m., 14,000 bales of sisal hemp were fired by lightning at the American Bagging Company's West Point Mill, Charleston, with a general loss of about \$150,000. A chimney of the Charleston high school was damaged by lightning about the same time, with loss of about \$300. 16th, an oil storage tank at the Standard Oil plant, Charleston, was struck by lightning in the early morning, with a loss of about \$3,000.

#### RIVER CONDITIONS.

The Santee River was in moderate flood at Rimini from ivestock became vigorous. Corn fodder pulling made good the 18th to the 28th and on the 30th and 31st, and at Ferguson from the 21st to the 25th. No floods occurred in the remaining streams of the Section.

#### MISCELLANEOUS PHENOMENA (dates).

Halo-Lunar: Columbia, 2 Fog, dense. - Mars Bluff, 17, 25; Trenton, 31; Winnsboro, 17.

## COMPARATIVE AUGUST DATA, EY COUNTIES.

The highest average temperature to the close of 1930 is The monthly mean for the Section, determined from reports of 39 stations, was 79.3°, or 0.5° above normal. The highest temperature was 105° at Blackville on the 10th. The highest temperature was 105° at Blackville on the 10th. The light temperature was 105° at Blackville on the 10th. The light temperature was 105° at Blackville on the 10th. The light temperature of 109° at Blackville on the 10th. The light temperature of 109° at Blackville on the 10th. The light temperature of 109° at Blackville on the 10th. The light temperature of 109° at Blackville on the 10th. The light temperature of 109° at Blackville on the 10th. The light temperature of 109° at Blackville on the 10th. The light temperature of 100° at Blackville on the 10th. The light temperature of 100° at Blackville on the 10th. The light temperature was 105

The greatest total monthly rainfall of record for any Auon the 5th and 6th, from the 19th to the 21st, and on the gust was 28.80 inches in Berkeley County, and the greatest

The average date for the first cotton bale ginned is Au-

#### ERRATA.

June. 1933.—Ferguson, mean temperature, page 22, should be 78.6; minimum temperature, 4th, page 24, should be 56, and monthly mean minimum should be 65.0.

#### PRESSURE, WIND, HUMIDITY AND SUNSHINE.

)		Atr (re	nosphe duced	to se	pressu: a-leve	re 1)		Wir	nd i		R ht	elati mid	ve ity	of shine
1	Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 р. т.	Percentage suns
	Asheville, N. C Augusta, Ga. Charleston, S. C. Charlotte, N. C. Columbia, S. C. Savannah, Ga.	30. 01 30. 00 29. 98 30 00 29. 99 30. 00	30, 29 30, 23 30, 19 30, 31 30, 25 30, 19	7 1 7 7 7	29. 70 29. 67 29. 67 29. 63 29. 65 29. 72	23 23 23 23 23 23	5.8 5.8 9.9 9.9 6.7 8.9	23 21 30 29 21 27	se. w. ne. sw. s. w.	30 28 12 11 18 13	90 83 82 86 85 85	61 55 67 62 56 63	79 65 83 71 71 81	
ĺ	Wilmington, N. C Means and ex- tremes	29.98 29.99	30, 22 30, 31	7	29. 40 29. 40	23 23	8. 6 7. 9	3 0 30	nw. *ne.	*12	87 85	71 62	87 78	60

\*Also from the northwest at Wilmington on the 11th.

#### Climatological Data for August, 1933.

					Clima	tolog	ical	Data	for	Aug	ust,	1983.								
		1	record.	Te	mperat	are, ir	degre	es Fa	hr.		Precip	itution,	in incl	ies.	Num	ber o	f da	ys.	direction	
Stations.	Counties.	on, fee	Length of rec	Mean.	Departure from the normal.	Highest.	Date.	Lowest.		Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 nours.	Total snowfull, unmelted.	With precipit on (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
Fustern Portion.  Beaufort (near) *** Bishopville Bishopville Charleston. Cheraw.  Conway Darlington Ethiophan Fergasonil Florence ! Florence ! Florence ! Kinkstree. Marion Mars Illnif. Myrtle Beach. Order !! Society IIII Society IIII Society IIII Society IIII Wedge feldt Wedge feldt Yeumssee Division menns and	Marion  Florence Horry Orangeburg Berkeley Sunter  Darlington Dorchester Sunter	224 296 48	53  63 52 45 48 48 48 52 19 10 2 19 87 20 43 43 44 45 45	78. 8 82. 0 81. 4 79. 5 79. 8 80. 0 79. 8 79. 8 81. 5 80. 9 79. 0	+1.5 +0.4 +1.0 +0.5 +1.2 +1.3 -0.4 +1.0 +1.4 +1.1	9100 97 105 98 98 98 100 96 99 97 102 98 99 99 97	27 11 10 11 11 11 11 11 11 11 11 11 11 10 10	*62 65 67 71 63 65 65 65 65 65 62 *68 68 69 61 60 64	30 † 7 † 23 23 30 7 7 † 7 30 30 30 4 7 † 7 23 23 23 23 15 5 7 † 6	*37 26 35 21 226 29 30	8. 86 1. 45 5. 85 5. 85 6. 38 4. 92 2. 43 6. 33 4. 92 2. 43 2. 43 3. 80 2. 62 2. 62 3. 75 3. 75 3. 75 4. 90	+2.60 +0.24 +2.16 -0.35 -1.77 +0.62 -1.91 -1.39 -4.17 -2.81 +0.45 -3.04 -1.26 -2.59 -2.93 -2.59 -2.63 -1.55	0.72 1.69	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 10	17 14 11  19 8  11 6 13 5 16 16 16	12 5 14 8  0 14  9 16 12 20 2 4  14  14  29 9 8	8 9 3 3 12 12 9 11 9 6 6 6 13 11 10 8 18 5 10 9		Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews F. S. Wenthor Burean. Roland D. Powe. Perry C. Quattebaum. D. G. McCall. Wm. B. Gillespie. Henry C. Savage. I. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Mrs. Ellen Scott. Dr. Charles B. Whilden. Rosa R. Davis. J. E. Bryan, Jr. II. S. Fisheries Station. Miss E. P. Ravenel. Marion P. Sweatman. E. D. Fields, Jr. Clemson Coast Exp. Sta Suniter Water Dept. W. Hampton Ramsey W. C. Hulson.
Alken Anderson Blairs Cesars Hend # Colloon Fulls Camben Cutte Chappells Cheppells Cheppells Clemson ollege	Anderson Fnirfield Greenville Abbeville Kershaw  York Newberry Spartanburg	527 764 293 8118 508 222 562 402 758 850	72 41 29 10 85 84 28 29 6 42	80. 6 77. 8 80. 2 80. 2	+1.6 -0.6  +1.5 +1.0	98 97 100 102	†10 12 10 11 10 11	63 60 61 66 59 58	18 30 31 † 6	30 29  83 29  81 82	1. 97 4. 64 6. 19 2. 14 2. 81 4. 06 4. 15 7. 03 3. 02	-3. 14 -0. 48 +1. 04 -2. 28 -2. 48 -0. 75 -0. 46	2. 16 1. 82 0. 80 0. 80 1. 10 1. 38 1. 83 0. 70	0 0 0 0 0 0	6 10 6 13 12 12 11 9	6  20 15		4 13  8  2 6 9	s	Frank B. McCoy. H. H. Russell. Sarah L. Honder P. Min. Co. L. M. Parker. Henry A. Brown. Junes C. Furis. William Speaman. Spein E. H. H. Calboun. H. S. Wedther Buront. H. S. Wedther Buront. H. S. Wedther Buront.
Columbia  Crescent. Edge-field Ellenton Gaston Shoals II. Greenwood Heath Springs Kershaw Landrum Laurens	Spartanburg Edgefield II Aiken Cherokee Greenwood Lancaster Kershuw Spartanburg	851 630 550 76 680 1039 671 568 500 1063 589	47 7 21 2 31 50 50 32 18 19 16	*78.0 79.2 77.0 78.6 76.9 79.3	+0.7  +2.2 +0.9 -1.2 +0.1 +0.3 +1.4	99  97 96 96 95 100	†11 †10 †11 †10 †10 †10 †10	66 *60 62 60 63 60 61	\$0 †30 80 81 80 †30 80	*32 28 27 27 27 31	3.85 4.69 2.81 4.60 7.54 5.92 1.88 6.48 6.47 4.62 5.75	-1.62 -0.98 +2.27 +0.42 -3.95 +1.14 +2.12 -0.30 +1.28	1.64 1.53 3.42 2.42 2.25 0.47 2.00 1.82 0.98	000000000000000000000000000000000000000	10 2 3 4 4 12 13 13 11 10 10 10 12 12 13	8 6 5 2 12		9 25 16 27 3	SW. W. SW. W.	Duke Power Co. J. C. Doscher, A. A. Foreman, Southern Public Utilities, Walter R. Hall. M. M. Calhoun, J. Marvin Bowers, John W. Hamel, R. Hartwell Wilds, D.D.S. L. G. Roft.
Little Mountain. Long Creek. New born \$\frac{1}{2}\text{Long Creek}. Sainda. Santuck Sourtandong. Trenton Walladla. Wintsboro Withfrop College II. Division means am	Newberry Oconee Newberry Anderson Sahdn Fluion Spartaning Edgefield Oconee Fairfield York	711 1000 502 850 536 512 824 620 1061 545 690	41 30 30 32 41 57 41 34 34	77. 8 77. 9 78. 5 78. 6 76. 8 79. 8 76. 2	-1.3 -1.6 -0.4 +0.3 -0.7 +0.5 -0.2 +1.0 -0.4 +0.2	99 98 101 98 93 101 98 100 97	12 3 †10 †10 †3 25 †10 11	61 61 61 61 61 62 58 63 60 58	† 5 † 6	33 36 35 35 31 7 36 7 36 7 36	5.02	+1. 14 -0. 42 -1. 82 +4. 50 -0. 52 -1. 60 +0. 19 +3. 82 +1. 00 +0. 0	4 2.48 4 0.99 4 1.80 7 4.89 4 0.89 0 1.42 9 2.45 5 2.19 7 1.42 5 6.25		0 10 10 10 10 10 10 10 10 10 10 10 10 10	6 7 7 7 8 7 7 7 8 9 9 19 9 9 9 10	17 25 18 19	14	w. w. sw. se. ne. sw.	Miss Ellierta Sease, Mrs. K. L. Burton, John H. Baxter, Earl J. Frick, B. B. Blease, W. O. Jeter, U. S. Weather Bureau, Mrs. S. E. Long, W. Brandt, Rev. Oliver Johnson, W. T. Clawson,
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in the table indicate number of days missing; for example, b represents two days missing, etc. determining section or division means. Reference letters (6, 5, 6), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. of Also on other dates. If Received too inter to be included in member are computed from observed readings, liftest-glice addresses of the day hallows of Gaston Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyllie; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Blacksburg; of Casari Shons, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Blacksbur

#### Daily Precipitation for August, 1933.

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nint      nety	Suntee Pee Dee	. 15				. 28					• • • • •		19	• • • • •	.65			1 40	.75			, 10 19						. 45		. 18	.10		3.58
amerville      ater	Ashley					. 35								1 75	95					45	91	16	-00					9.4	(2)		. 18		4.60
lketiela	Wateree	. 12			.37	.28		.05				. 05	. 03	. 10			Ť	128	.20		`.io	Τ̈́.	• • • •	::::			. 42	. 02	. 62		.72		3.22
mssord	Asnepoo	• • • • •				1, 69	• • • •		. 07		• • • •			. 10	. 03			. 19	.08	. 64	• • • •	.02	• • • •				• • • •	. 18		••••	. 55	•••	3.50
en lerson	Edisto Savamah				.07										. 11		. 47	1. 37	1,39	• • • •			• • • •				80				2.16	.66	1.97
lrs      ar's Head houn Falls					. 15	.09							T.		. 21		.85		1.80	. 07	1.82						. 51				. 60	. 09	6, 19
dona Falls	Savannah		1 . 38											. 47				. 17								. 80		99	. 10.				2.14
wha III	Waterea Cutawba																			. 02		• • • •	. 62	••••								.04	4.06
ppeils III	Sulmin	60			.32										. 06		1.10	20	13	.14	1.38			• • • • •			. 37	. 05		. 03	. 12	. 02	4.15
rokee (near) nson College																											32			1	. 14	.32	7.03
umbla ***	Savatinh Congaree Enoree	T.		. 65	T.	. 17							T.	.06		24	1. 42	1.11	.01	T.	. 01	. 03					. 54	. 19	T.	. 28	.01	. 02	3.85 4.69
efield #	Savannah													.01			. 00				••••		•			. 50					. 42	. 02	2. 81
utonsushanis ##	Savannah Brond														.40			8	3. 42			. 04					1. 03				.74		4.60
a ville ***	SHIRRIN		. 07	. 12	16	. 03					. 03	T.	. 04		. 40		$\frac{2.30}{2.00}$	T.	.07	. 15			Ť.				. 14	.10	.06	T. 2	2. 25	.33	5.02
th Springs	Wateree	. 47	.35		1.24		:::						1				1.54						.03				. 10	. 09	. 16	. 09	.36	. 05	1.88 6.48
straw III	Lyuches				. 38												1.82	- 1	į.					1			16				. 32		6, 47
drum	Broad					.34								. 19		. 11	. 81		. 98	. 23		100					. 42			.31	.72	.58	4. f2 5.75
le Mountaia g Creek	Saliida			:							T		T				T.	. 65	. 25	. 65		.08		:::			6.25		. 20		.05 .		8.28
berry	Saluda		T.			T							T.	.06			1. 35	.95	. 43	. 73			• • • •	• • • •				1	T.		.24	.09	6.25
er	do	. 02	T.			. 33			• • • •		••••	• • • •	T	• • •	• • • •	••••	. 99	. 12	. 52	.36			• • • •		• • • • •	• • • •	. 53	• • • •			. 55	.24	3.92
da	Broud	• • • •		. 05		.95					••••			. 09		0.4	. 15	. 25	.28						]	.80		1.10		. (5 .	.30	10	2.52
rtanburg ***	Brond do Edisto	T.		. 26	.01	. 44					.20		Ť.	Tr.	. 69		.58	T	.12	. 44		T	T.	••••			. 28	.36		T.	.76		4.88
luilh usboro	Savanuab	1 55		17	- 1				1			.27		. 46			. 27	. 40 .	. 42	Т.	Т.	Т.					. 55	, 02	T.	T. 2	. 45	.12	5.87
throp College	Broad Catawba	1.67	.35	1.35	.08	2.07											.59 1.08	. 24	.78	. 49		.10	T.				.30	2. 19			.93		9.06
Vwoont as attended.						-											_										.,,				-		

Except as otherwise indicated, observations are generally made late in the afternoon, near smaset, and precipitation recorded is for the 24 hours ending at the time of bservation. Ill Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the bour period, midnight to midnight. \* Precipitation included in the next following measurement. Esparate dates of falls not recorded. T. Trace, or less than 0.01 incl.

### COMPARATIVE DATA FOR AUGUST.

									OME	MI.	U I I	V E	מע	IA FU	R A	UGUST	r.										
		Temper	ature			Prec	ipitati	on		Nun	nber	of Da	ys			Temper	ature			Prec	ipitati	on		Nun	ber	of Da	ıys
ear	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precip01 inch or more	Clear	Partly	Cloudy
7 × 5 9 0 0 1 2 2 3 3 1 1 5 5 6 7 × 9 0 0 1 2 2 3 3 4 4 5 5 6 7 7 8 9 9 0 0 0 1 2 2 3 3 4 4 5 5 6 7 8 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	77. 8 74. 4 77. 1 78. 9 79. 5 77. 5 77. 9 79. 4 78. 0 78. 7 80. 4 78. 6 80. 6 77. 9 80. 6 77. 9 80. 6 77. 9	-1.0 -1.0 -1.4 -1.7 +0.1 +0.7 -1.3 -0.9 +0.6 +1.6 -0.8 -0.1 +2.4 +4.2 -0.2 -0.2 -0.2 -1.8 +1.8 +1.8 -0.9 +1.8 +0.2 -0.9	101 102 97 98 98 96 97 102 101 105 102 99 103 106 97 104 105 102 107 100 101	49 50 45 51 55 55 55 55 55 57 57 59 60 57 55 60 54 46 60 54 54	6.54 4.53 6.37 4.25 8.42 12.45 7.28 4.14 5.16 6.26 2.13 9.07 7.15 6.62 6.62 5.41 4.83	-1.56 -0.54 +4.11 +0.56 -3.57 +3.31 -0.63 +1.45 +2.77 -0.01 +0.92	7. 84 6. 90 11. 89 7. 95 28. 80 9. 72 24. 67 12. 26 12. 00 10. 21 9. 93 24. 68 17. 94 5. 19. 32 8. 68 12. 83 10. 87 12. 45 11. 40 19. 52 11. 70	2. 23 1, 52 1, 73 1, 61 4, 30 1, 38 5, 13 0, 58 1, 02 1, 22 1, 22 1, 23 1, 20 2, 30 2, 30 2, 30 2, 30 2, 30 3, 16 1, 37		13 11 13 7 9 18 10 5 15 12 12 14 11 15 9 10 8	10 10 9 14 13 8 12 21 7 14 15 15 7 13 12 15 15	9 13 14 12 9 11 11 9 14 10 9 8 17 13 11 12	12 8 8 5 9 12 8 1 10 7 7 7 10 8 8 4	1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1929 1930 1931 1932 1931	79. 2 78. 9 79. 0 78. 8 79. 6 78. 5 80. 2 78. 5 77. 7 78. 2 76. 4 80. 4 80. 7 76. 1 79. 4 78. 5 79. 0 79. 0	+0.4 +0.1 +0.2 0.0 +0.8 -0.3 +1.4 +0.3 -1.1 -0.6 +1.4 +0.5 +1.6 +1.4 +1.9 -2.7 +0.6 -0.8 -1.3 -0.5 +1.6 -0.5 +1.6 -0.5 +1.4 +0.5 +1.4 +0.5 +1.4 +0.5 +1.4 +0.5 +1.4 +0.5 +1.4 +1.5 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6	104 104 101 102 100 102 106 103 100 102 98 101 105 109 98 101 103 105 103	54 52 56 52 58 49 52 53 56 49 54 53 53 55 49 50 50 55 58	3, 69 3, 76 5, 88 7, 62 3, 27 3, 23 4, 45 5, 08 8, 08 8, 14 5, 07 7, 44 4, 5, 14 8, 3, 46 4, 34 4, 10, 22 3, 18 2, 42 4, 84 5, 81 4, 71		6. 75 8. 78 13. 70 13. 58 10. 91 8. 62 8. 11 9. 69 15. 40 10. 03 12. 73 14. 30 8. 28 3. 31 6. 05 8. 70 7. 66 10. 45 11. 76 10. 14			9 9 9 13 14 8 8 7 9 14 10 11 12 6 6 4 7 9 12 7 5 10 9 10	16 15 9 11 16 15 20 14 8 14 12 11 11 18 21 17 12 13 16 17 12 13 16 17 12 11 11 11 11 11 11 11 11 11 11 11 11	8 9 9 15 11 10 10 7 7 11 12 10 8 8 11 1 9 7 7 10 10 10 11 18 8 7 10 9 10 10	77795646117119434997778879
ĭ	80.0	+1.2	101	51	6.00		13, 01	1. 76		10	10	12	6	Period.	78.8		109	45	5.70		28.80	0.27	0	10	13	11	7

						D	aily	Te	mp	erat	ture	es f	or .	Aug	ust	, 18	983.														_ 1
Stations.	1	2	3	ő	6	-	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22 2	es   :	24 2	5 :	26 2	28	3 29	30	នរ	Me	an
Eastern Partim.		i	1	1	Ī	T			1	Ī	1	1		1	1							1			-		1				
- Muximum	91	90 63	88	94	8	32 8 71 7	7 88 0 71	97	9:	3 9	6 7	5 7	3 7	14 7	74 7	0 7	00 9 0 7 34 8	0 7	84	84 70	85 70	88 69	82 . 69 .	93	92	70 92	74	99 64	62	91 64 80	90.6 •70.5 87.1 70.4 93.2
Maximum	63 89 73	90 74 95	90		80 8 69	83 8 66 6	6 87 5 71	9	1 9	5 9	7 8	9 9	71 7	3 7	70 7	6 8	39 6	9 7	79		65 83 69	89 70	70	71	71	72	70	89 71 98 74 93 76 90 74 96	65 84	68 85	70, 4 93, 2
Blackville ) Maximum	97 72	95 73	97 71	94	86 8	87 9 68 6	4 98 8 69	10	2 10	3 7	4 7	16 7	72	2 (	95 9 68 7	1 9	91 9 72 6 82 8	9 6	9 71	69	69 83	93 67 90	98 71 89	71 97 78 90	71	69 90	72 94	74 93	67 82	71 84	70.9
Charleston Maximum	91 80	73 90 79 95	88 80	73 91 72	71 88 74	83 8 72 7	9 88	9 7	4 7	4 9 8 8 5 9	5 9	71	74	72 6 92 9 77 93 9	78 7	34 8 33 7 30 8	75 7	5 7	9 78 2 72 5 83 0 65	69 78 78 70	73 80 65	71 87	92	78 95	73 95	75 90	77 97	76 90	73 80	73 85	88.0 74.8 89.3
Cheraws Maximum	97 72 91 80 95 72 94	7.1	96 72	92 75 93 73	82 70	65   -6	8 8	9 6 9 6 8 6	8 7	4 7	0 1 08 9 14 1 08 9	71 92 78 95	72 90 74 94 94 95 70 96 71	73 93 71	65	00 8 72 7	88 8 71 6 84 8	8 77 5 8 7 5 8 8 6 7 7 8 7 8 7 9 7 9 7	0 65 9 78	65	65 83	90 71 87 70 90 70	65 94 73 93 71	71	100 71 92 73 95 75 98 72 95 72	72 97 69 90 75 90 75 95 68 94 71	92 70 97 72 94 77 94 70 94 70 94 69	74 96	63 79	80 68 85 71 84 73 85 65 87 67 81	69.7 89.4
Bonway ) Maximum	70	94 72 95 74	91 71	73	70 78 70 77 69	78 8 67 6 81 9	5 6 6 8 5 7	6 6	9 7	0 7	2 7	73 96	70 96	90 1	93	86 8 71 7	54 8 70 7 87 8 69 7	0 7 8 0 7	9 78 0 69 3 76	11	83 70 81 69	70 90	73 93	94 72 96 72	72 95	68 94	94	78 91 73	77	81	89.4 70.1 89.7 70.4
Darlington M   Maximum	70 93 71		97 73						7 7		4			72	69							69 90		- 1		- 1	9.4	1			
Fergusou M Maximum	95 68	93 70 94 75	94 70	98 73 92	82 70	80 8 69 6	37 9 37 7	0 6	8 7	2 9	98 1 75 1	93 76 95	70	92 71	69	72 6	81 8 67 6	55 8 59 7 36 8 38 7	6 87 0 70 3 76 1 69	75 70 77 70 81 69	84 69 80	68 89	91 71 94	.93 72 95	92 71 96 71 98 72 92 74 92 73	94 70 92 70 99	94 71 95 69	74 90 72 100	89 67 76 65 82 70 80 67 78 62	84 69 84	89.8 70.8 89.2
Florence 1   Muximum	68 95 76	94 75	96 74	92 76	70 78 74 92 71 82 71	83 8 66 6 87 9 69 6 85 8	\$9 8 \$8 7 92 9	0 6	20 7	1 2	12	95 74 99	70	90 71 95 72 92 72 88 72	91 70 98 62 92 72 87	89 70 92 69	67 6 85 8 70 6 92 8	39 7 36 8 38 7 37 8	1 69	70 81	68 80	68 89 70 93	69 98 68	72 98	71 98	70 99	69 100	72 100	65 82	84 66 87 68 85 68 82 67	89.2 70.5 93.6 69.4 90.7
Garnett Maximum	70	98 69	96 68	76 97 70 95	71	69	92 9 67 6 89 9	8 6	9 10 8 5 8 9	1	73	74	70 97 72 95	72	62	69 1	69 (	55 6 59 8	8 76	69	82	68 91	68 96	71 97	72 92	68 95	100 70 96 70 92	73 95	70 80	68 85	69. 4 90. 7 71. 1
Kingstree j Maximum Minimum	98 70 96 71 98	69 98 73 95	94 71 91 73	7.5	71	68 4	66 7	1 6	8 5 8 9 9 7	2	75 96 73	75	71 96 70	72 88	72 87	69 89 71	71 3 83 8 71 6	$\frac{70}{52}$ $\frac{7}{7}$	5 7	71 80	70 80	70 86 71	96 72 95 70	74 95 74	92	68 95 70 91 70	70 92 69	73 95 75 89 74	78 69	82 67	87.8 70.3
Marion Maximum	71	74	73	75	81 70	62	65 7	1 6	19	70	73	73	70	72	70	71	71 6	59 7	2 7	70	69	.,									
Myrtle Beach Muximum Minimum								-							92	88	88	07	9 8	80	80	90	92	94	98	92	98	92	85 68	81	89.9
Orangeburg ! Maximum ! Minimum	. 93 75 96 . 70	93 74	94 72 98	93 74 96	86 72 78	69	90 9 69 7 89 9		96	7.1		77	91 72 97	91 78 92 72	69	70	72 91	87 8 70 7 91 8 69 7	12 8: 7 10 7 18: 7 10 6 17: 7 17: 7 18: 7	80 1 70 7 78 8 69	80 70 81	69 91	72 95	73 99 72 95 73 94 72 97	98 72 99	92 71 98 71 94 71 95 71 95 71 96 69	72 99	92 74 92 72 95 76 94 72 98 71 97 73	65	81 71 85	89.9 71.6 °92.0
Society Hill W Minimum	. 70	74 99 74 94	71 90	96 75 96	68 95 75	65	63 7 91 9	0	39	97	72	73	70 96 71	72 92	68	93	87	87	0 6 78 7	8 75	68 81	68 91	68 92 78 95	72 95	72 92 78	94	69 96 78 95 70 95 71 96 70	95	80	87	69.6 90.8 71.9 90.2 69.8 90.4 69.3 91.4 69.6
Summerville	73	72 95	71 94	73 96	75 86	95 70 85	69 7	0 2 2 9	69 69	97 74 99 72 98	75 98 73 98	98 75 95 75 94	71 94	92 73 92	92	69 88	71 86	72 88 68 88	78 77 77 77 78 77 78 77 78 77 78 77 78 77 78 77 78 78	8 75 2 72 8 78 9 69	72 80 69	91	95	94	94	95	95	94	70 84 65	87 70 80 69 78 70 88	00.2
Sumter (Minimum	. 73 . 95 . 72 . 94	73 94	72 95 72	73	70	66	65 7 88 8		69 92 67	72 98	73 98	75 94	70 95	71 91	70 92	88 72 89	86 68 92 69	68 68	88 88	9 65 4 79 8 65 2 86	81	93	70 94 70	97	69 96 68	95 71	95 71	92	87 65	78	90.4
Wedgefield / Minimum Vennissee / Minimum Muximum Minimum	7:	73	72 93	02 73 94 71	90	65 87 68	90 9	21	96 68	68 98 71	69 97 72	74 97 78	71 94 72	71 93 71	71 95 64	90	89 70	90	89 6 81 8 68 7	2 86	68 82 69	90	94	94 72	96 74	96 69	96 70	97 78	82 70	69	91.4 69.6
Vennissee ) Minimum	70	70	69	71	70	6.8	67	58	68	71	72	78	12	71	64	69	"		,		1					i					
Western Partion.				1			1						1	1								01	91	0.	02	93	92	91	86	79	90.6 70.7
Alken   Maximum	. 9	95	95 73	95	85 68	87 69	89 68	69	68	98 75 95	98 75 95	96 76	95 74	93 73 91	93 69 89	93 78 84	89 70 79	85 63 86	68 6	6 8 9 6 2 8	9: 70	FIF	68 1 94 5 67	70	98 72 1 92 68	-71 92	91	91 72 89 71	67 75 60	79 65 78 61	70.7 87.7 67.9
Anderson   Maximum	8	95 4 78 9 98	89 71	78 90 72	78 68	82 64	68 84 68	92 65	93 67	71	74	76 97 72	74 92 72	67	68	66	68	68	66	8 6	2 80 8 68	68	67	6	68	69	70	71	60	61	67.9
Chesar's Head Minimum				96		85	86	91	96 1	00	08		96	91	92 65	90	85	86	87 68	6 8	6 88		6 98 5 68	9	90	92	91	86	80	78 61	91.2
Calhoun Fulls W Minimum Maximum	1 2		72	72 93	91 73 74 70	65 82	67 90	66	68 97 70	00 73	98 75 102 73	99 79 99	96 76 98	68 97 72	86	68	69 81	68 91	89		8 76 8 83 8 66	9.	5 98	9 7	8 69 5 97 3 70	76 98 72	91 69 95 71	71 93 71	76 66	81 67	90.6 69.9
Camden W / Muximum / Minimum	•-  7	1 78	72	73		66	67		- 1	72 96		73	72	72 86	71 83	70	69	68		3 8	2 8:	, 8	7 96	9	2 90	i	93	86	71 61	74	
Cherokee (near)   Maximum   Minimum	6	9 7	0 67	90 72	81 63	81 69 85	59	88 62	92 65 92	68	95 68 93 69	92 68 96	92 69 93	67 89	64 87	64	79 66 79	66		86 F	8 8 8	7 6 4 R	8 9:	6 9	4 69 4 90	1 03	68 92	69	81;	61 72 60 76 69 71 60	86.5 66.4 88.2 66.6 89.9 71.5 89.8
Clemson, College / Maximum .	7	2 9 0 6 9	9 69	90 71	70	65 83	84 58 88	88 61 92	64	68 99 75 96	98	70 95	71 93 73 97	66	64 98 72	82 65 89	79 66 84	87 69 86	65 85	86 6 87 8 72 6 83 7 70 5	5; 6 8, 8	6 6	1 6	1 9	5 68 5 98 4 69	68 98 73 94 67	68 94	71 90 69 91 67	66 66 67 60	76 69	89.9 71.5
Columbia   Maximum .	7	4 7	4 74	71 92 74 93	78 70 82	69	70 84 63	60	69	75 96	75 97 71	70 95 76 97 71	73 97	72 92	90	89 70 83	70 81 68	86 69 90 67		70 86	8. 8 10. 7 14. 8 18. 6	2 9	12 9 14 6	5 9	7 9. 5 68	94	94 78 95 67	91 67	67 60	60	89.8 66.7
Greenville		i .	. 68	72	69	87 66	- 1	64	66	69	- 1	- 1	69	91	65 92	90	1	- 1	400	87	80 s		19 9				94				89.6
Greenwood   Maximum .	:: 3	91 9 71 7 91 9	1 9- 2 7- 1 9	92	83 72 75 66	87 63 80	63 84	90 64	95 68 90 67	97 72 94	94 96	97 74 91 72 95 73 94	95 72 92	70 90	66 89	67 84	87 68 83	86 69 83	90 68 89 66 85	87 69 77	72 8	8 6	6 6 84 8	9 9	96 91 70 70 92 81 70 61 94 9 71 70 92 8	69	69		62 84	76 63 74 60 76 67 72 60	89.6 68.8 86.6 67.6 88.0 69.1 87.5 66.3
Heath Springs   Maximum   Minimum		30 7	9 7	72	75 66 83	62 82	64 87	66 89	67 92	70 94	73	72	68 95	71	68	66 87	65	67 85 69 84	66 85	77 65 81	67 A	5 6	57 6 26 9	1 9	0 6	95 70 1 95 0 75 9 95	92 70 91 2 70 2 90	89	84 62 72 68 74	76	88.0
Kershaw Maximum Minimum Maximum		92 9 71 7	15 9 13 7 13 9 19 6	$[1 \ 73]$	68	64	64 85	69	68	72 95	96 75 95	73 94	70 94	72 89	68	68 82 65 89	66 79 65 85	69 84		67 81 65 85	81 9	9 9	28 9	1 9	04 9 71 7 02 8 66 6	9 9	90	69 87 72 00	74	72 60	87.5 66.5
Landrum / Minimum.		rs. 6	15 9	71	68 81	68 89	62 85	63 94	96	100	99	69 97 71	68 97 72	70 98	92		85	67	66 97 67	85 69	83 s	5 (2)	91 9	5	07 9 66 6	9 7	9 68 8 94 1 60	72	60 76 61	75 63	90. 68.
Laurens	• • •	70	72 7	2 78	70	62	68	64	69	70 96	73			70		67 90	67 89	88	88			1	92 9		94 9	0 9			75	1	89. 65.
Little Monutain Maximum Minimum .		92 ! 69 !	03 9 70 7	4 89 0 68	89 67	86 61	88 65	90 64	66	68	98 70	99 71	95 68	94 67	92 65	66	64	66	65	64	65	35	62 6	5	70 6	4	6:	5 62			
Long Creek   Maximum   Minimum   Maximum		99	0.5 9	3 95				01	95	97	98	96		91	95 65	85		82	88	83	79 66	 65		04	95 9	1 9	U 01		78	74 61	89. 66. 89. 67. 89.
Newberry / Minimum.		67	69 7	1 71	0.6	61 90	64	64 87	64 81	70 84	72 98	71 96	70 93	95	95	65 87	65 87 69 86	65 86 69	65 90 69	86	81	81	94 5	0.5	70 6 97 9 70 7	7 6 1 9 1 7	3 9	4 06 2 64 4 8	60 74 5 64 7 70 9 65	76 65	89. 67.
Sauda / Minimum.		71	90 10 71 7 96 9	8 6 6 9	65	65	65 85	64 89	61	64 64	72 98 65 98 74	72 96 73	76 95 70	65 92 71	65 97 64	65 85 66	86 66	87 69	88 68	70 82 68	70 80 69	(03	901	0.4	96 9 67	7 6 1 9 1 7 2 9 0 7	3 9- 1 7: 5 9- 1 0	9 6	9 62	65 75 2 65	89. 67.
Santnek Minimum.	•	68		1	69	61	65	63	63	68 98	92	92	99	86			80	86	86				88.	90	- 1	- 1		2 8	6 66	73	85. 67.
Spuringhurg   Maximum   Minimum		91 72 99	99 9 71 7 99 10	1 7	1 66	80 63 7	82 63 86	87 65 89	91 70 90		101	72 94	72 95 71 94	6.5	82 67 93 70	65 84	66 82	69 82	66	81 68 82 70 86	68 77 68	80 68 78 68 87	88	68 91	69 95	90 9 10 6 17 9	91 9 90 6 92 9 19 7 95 9 14 6 18 9 71 7 95 9	2 8 9 6 1 9 10 7 10 7 10 7 10 7 10 7 10 7 10 7 10 7	2 81	2 65	85. 67. 90. 69. 88. 63. 88. 69. 84.
Treuton   Maximum   Mulmum   Maximum		77.	99 10	7 7 7 9 9 18 6	3 76 2 85	66 83	66 85	67	7.0	71 97 75 95 65	78 95 67	95	71	93 71 90 62 62 75 75 91	87	68 84	8 68	66 89 66	84 67 89	70 86 62	68 62	68 87 62	65 92 60 91 67	91 69 95 94	00	36	05 g	3 9	0 6 6 5 7 7	9 79 61	88. 68.
Walhulu Maximum Minimum Maximum		66	95 5	18 6	9 67	65	58	58 90 67 90	94 61 95	100	100	96	66	62	87 61 2 89	84 64 86 68	64	86	85	68 83	69	79 68	67	69 91	95 73	89 88	13 9	14 8 71 7 05 9	7 7 6	0 76 8 64	69.
Whinsboro W Minimum.		96	74	4 7	5 69	9 65	87 68 87 66	67 90	69 94	78 92 71	75 97 71	74 99 7	7: 2 9: 2 6:	5 91 9 69	76 1 88 9 68	84	68 85 65	69 89 67	70 86 69	83 65	78 65	79 65	90	95 60	95 73 96 69	68	95 q 69 f	9 19 6	0 6 8 6	0 63	67.
Whethrop College   Minimum.		69	70	38, 7	2 6	5 60	66	64	66	71	71	1	05	111		1													1	1	

Reference letters (\*, b, c), appearing in the tuble indicate number of days missing: for example. \* represents two days missing, etc.

% Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W B O, Raleigh, 9-28-33-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

G. C. M.

SOUTH CAROLINA SECTION.

R. H. SULLIVAN.

J. XXXVI. COLUMBIA, S. C., SEPTEMBER, 1933.

#### GENERAL SUMMARY.

as and amounts.

The month opened with fair showers, followed by copious heavy rains in all parts of the Section from the 5th to the h. Dry, hot weather prevailed during the remainder of the onth, except a few recurring light showers about the 14th d at the close. Overmuch moisture during the first half cking approaching completon in the central and southern at Camden. Having made good progress generally above normal, except rather low water in the Waterce River at Camden. ctions by the 30th. Haying made good progress generally. d the last alfalfa was being harvested as the month closed. orn fodder pulling from the early crop and the watermelon ason practically ended by the 12th. Late corn, sweet potoes, truck, forage, and lesser crops made vigorous growth Spartanburg, 8; Trenton, 2, 24. cident to the rains, to be cheeked later by drought. Apples, ears, grapes, and all kinds of vegetables were marketed in ason. Some fall truck was replanted in the coastal secons on account of drought. Fall plowing made fair progress aly. Sorghum molasses making was active after the 10th.

#### TEMPERATURE.

The monthly mean for the Section, 41 stations reporting, Abbeville County, on the 8th, the same year. as 77 8°, or 3.3° above normal. The highest temperature above normal from the 1st to the 5th, and abnormal heat as prevalent from the 8th to the 20th and from the 23d to ERRATA.

2 to 13° above normal. The lowest temperature was 42° at perature, page 30, should be 4.04; beautiful and the 21st and 22d. The cool periods were neggible.

### PRECIPITATION.

The average for the Section, 54 stations reporting, was 06 inches, or 0.04 inch below normal. Precipitation was ery unevenly distributed, with 6 to over 13 inches on the pastal plain and in a small area of the northwestern counties, nd the amounts ranged downward elsewhere from 6 inches less than 1 inch. The greatest local monthly amount was 3.04 inches at Charleston; least local monthly amount, 0.83 ich at Winthrop College, Rock Hill. The greatest amount 1 any 24 hours was 10.57 inches at Charleston, a recordreaking amount for all months at that point. The average umber of rainy days was 29% below normal.

Killed by Lightning. - 13th, late afternoon, near Darlington; Mr. Owen Woodham, while feeding stock with a pitchfork.

Damage by Wind Squalls .- 6th, 6 a.m., in the vicinity of Folly Island, near Charleston, property damage about \$2,000. 12th, 6 p.m., grandstand in mill village at Greenville damaged about \$300.

Tornado. - A violent wind squall, with all the charac-The month was abnormally warm, and the precipitation teristics of a tornado, dipped at Sullivan's Island, near characteristics feet wide and about 1,000 feet long, and the storm moved from south-southeast to the north-northwest. It was part of a general storm, when tremendous rains fell at Charleston, where the wind velocity reached 51 miles per hour; damage about \$10.000.

#### RIVER CONDITIONS.

The Saluda River was in flood at Chappells on the 8th used considerable boll rot and weevil activity in cotton; and 9th, and the Santee River was near or above fleed stages wever, the succeeding hot, dry weather was favorable for throughout the month at Rimini and Ferguson, notwithstardpid boll opening, with picking and ginning very active, and ing a prolonged drought after the 15th. All stages averaged

# MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Little Mountain, 2; Spartanburg, 27 Fog. dense.—Bishopville, 14; Catawba, 2, 3, 4, 14; Chappells, 2; Mars Bluff, 2, 4, 5, 13, 14, 20, 26; Santuck, 2;

# COMPARATIVE SEPTEMBER DATA, BY MONTHS.

ty. The greatest average daily range is 22.9° in Spartanburg County, and the Past, 124 in Charleston County. The absolute highest temperature for this bonth and also for all months of record in this State was 111° at Blackville, Barnwell County, on September 4, 1925, and at Calboun Falls,

The greatest total monthly, rainfall of record for any Sepas 100° at Garnett on the 17th. Temperatures averaged near tember was 27.06 inches in Marion County, and the greatest 24-hour amount was 11.44 inches in Jasper and Beaufoit

#### ERRATA.

### PRESSURE, WIND, HUMIDITY AND SUNSHINE.

		,											
	Atn (red	nosphe luced (	ric I to se	oressur a-level	e 1		Win	d			nati midi		ge of sunshine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage
Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Savannah, Ga Wilmington, N. C Means and ex-/	30, 00 29, 95 29, 96 29, 98 29, 97 29, 96	30, 13 30, 15 30, 20 30, 18 30, 13	3 25 3 3 25	29, 73 29, 70 29, 69 29, 70 29, 74 29, 67 29, 48	11 6 15 10 10 6 15	6. 2 4. 8 9. 5 10. 3 6. 6 9. 5 8. 3	21 23 51 32 28 47 42	nw. ne. se. nw. ne. se. nw.	20 6 6 21 6 5 15	88 84 83 81 85 84 85	52 52 66 57 54 56 60	71 71 81 60 67 76 82	63 84 81 81 75 74 76
tremes	29.97	30.20	3	29.48	15	7,8	51	se.	6	84	57	73	76

#### Climatological Data for September, 1933.

					CIIIIa	LOIOE.	icai 1	Jaca	101 .	septe	mber	, 1933								
	1		record,	7	Tem per	ature,	in degi	rees F	ahr.		Precip	itation,	in inc	hes.	Num	ber o	of di	ıys.	direction	
stations.	Counties.	on, fee	Length of re-	Mean.	Departure from the normal.	Highest.	Pate.	Lowest.	Date.	Greatest duily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelled.	With precipit on (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
Eastern Portion,																				
Beaufort (near)‡‡ Bishopville Blackvliie Charleston Chernw	Benufort Lee	21 224 296 48 144	53 50 63 52	181. 4 77. 6 80. 2 81. 2 77. 9	+4.3 +4.6 +4.3	91 98 95 96	†11 † 4 †17 20 4	55 55 65 50	22 22 †21 22 22 22	132 34 43 20 40	6. 61 8. 14 4. 22 13. 04 2. 94	+1.43 -0.07 +8.51 -0.81	4.98 1.58 1.56 10.57 1.21	0 0 0 0	6 4 8 7 5	22 17 15	4 10 12	 4 3 3	sw.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews D. S. Weather Burean. Roland D. Powe.
Conwny Darlington Effinglion Ferguson‡	Horry	25 175 106 63	45 39 43 48	79. 0 79. 6 	+4.0 +4.9 +3.7	96 99 97	†12 12 17	55 52 52	22 22  22	36 40 39	7. 16 2. 15 3. 79 5. 41	$^{+2.09}_{-2.28}$ $^{-0.79}_{+1.19}$	4, 60 1,21 1, 80 4, 62	0 0 0 0	5 4 6 6	27 11 	1 14 	2 5 	sw.	Perry C. Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1 Florence 2 Garnett Kingstree Marion	Florencedo	136 136 82 54 68	52 19 16 52 9	79.4 d80 0 79.9	+4.2 +2.8 +5.0	96 d100 98	12  †17 †12	54 450 50 50	23 22 22 23	38 -442 43	2.22 2.30 2.73 6.13 6.32	-2.09 -2.01 -3.56 +1.78	1.85 2.30 2.00 3.55 3.93	0 0 0 0	5 1 5 6 8	16 23 21 25 28	11 6 6 0 6	3 1 3 5 1	sw. sw. s. se.	H. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Mrs. Ellen Scott. Dr. Charles B. Whilden.
Murs Bluff. Myrtle Beach Orangeburg Pinopolis** Rimini	Florence Horry Orangeburg Berkeley Sumter	92 30 264 54 97	10 2 19 87 20	79. 2 174. 3	+8.4 0.0	96 190	17 12	54 152	22 22 22	37	6.35 3.79 1.36 3.57	-0.78 -3.33 -1.76	1.70 1.94 1.09 3.00	0 0 0	5  5 3 3	14 18	11 10	5 2	sw. se.	Rosa R. Davis. J. E. Bryan, Jr. U.S. Fisheries Station. Miss E. P. Ravenel Marion P. Sweatman.
Society Hill Summerville Sumter Wedgesleld Yennissee	Durlington Dorchester Sumter Sumter Hampton	192 75 169 249 24	48 86 12 48 45	*78.4 79.8 78.0 78.5 78.5	+4.7 +4.3 +3.6 +4.2 +2.7	*97 99 96 95 97	† 4 17 12 †11 17	52 53 52 53 50	†22 22 22 22 22 22 22	*48 39 42 35 88	5. 90 7. 20 4. 95 4.67 5.64	+1.54 +2.00 +0.72 +0.49 +1.08	2.55 5.75 2.15 2.30 4.12	0 0 0	6 6 5 5	23 20 12 25 28	6 8 3 1	1 4 10 2 6	n. e. ne. w. se.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Dept. W. Humpton Ramsey W. C. Hutson.
Division menus and	extremes			79.1	+3.8	100	17	50	†22	43	4.85	+0,21	10. 57	0	5	20	6	4	811.	
Western Portion.																				
Allen Anderson Blairs Casurs Head ## Callionn lends Canden	Aiken Anderson Fnirfield Greenville Abbeville Kerslaw	527 764 293 3118 508 222	72 41 29 10 35 84	78. 8 76. 1 	+4.0 +1.9  +2.8 +5.1	95 93 184 97 98	17 †17 25 19	56 53 47 53 52	†21 22  22 24 22	87 84 <sup>m</sup> 29 42 40	3,58 3,06 3,21 3,46 4,81 3,41	-0.02 -0.32 +0.02 +0.95 -0.55	2. 28 1. 48 1. 68 1. 14 2. 55 1. 48	0 0 0 0 0	4 6 5 9 5 7	24 23  11	2 8  12	4 4 7	ne. w.	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Casar's Head—P. Mtn. Co L. M. Purker. Heury A. Brown.
Catawba Chappells Cherokee (near) Clemson College Columbia	York Newberry Spartanburg Oconee Richland	562 402 758 850 351	28 29 6 42 47	*74.6 76.4 79.5	+3.5 +5.0	*93 99 96	17 19 11	*44 47 58	22 22 22 22	*44 44 28	1.07 6.79 1.97 2.14 2.19	-2.69 +3.11 -1.89 -1.26	0.46 3.60 1.34 1.00 1.38	0 0 0 0	4 7	24 20 16	 2 4 11	 4 6 3	w.	James C. Furis. William Spearman. Spartanburg Water Works Prof. F. H. H. Calhonn. U. S. Weather Burenn.
Crescent. Edgedold Ellenton Guston Shows 11 Greenville.	Spartanburg	630 550 76 680 1039	7 21 2 31 50	76.0	+5.4	96	†12	47	21	42	3.73 4.81 3.51 1.61 2.48	+1 74 -1.91 -1.20	2.59 1.99 1.90 0.44 1.30	0 0 0 0	4 5 7	14	10	6	sw.	Duke Power Co. J. C. Doscher. A. A. Foreman. Southern Public Utilities. Waiter R. Hall.
Greenwood Heath Springs Kershuw Landrum Laurens	Greenwood Lancaster Kershaw Spartanbarg Laurens	568 500 1063 589	50 82 18 19 16	78.0 76.4 77.3 76.2 77.2	+4.6 +3.0 +2.8 +3.2 +3.4	95 94 95 92 95	18 †12 12 †10 †10	52 52 52 52 49	22 †21 †21 †21 †22 21	37 38 38 38 40	4. 06 1. 05 1. 61 2. 82 6. 09	+0.42 -2.35 -2.20 -1.91 +1.96	2.81 0.67 0.97 0.98 3.41	0 0 0	3 6 7	18 13 9 15 26	0 7 6 11 2	12 10 15 4 2	W. W. W. He. W.	M. M. Calbonn, J. Marvin Bowers, John W. Hamet, R. Hartwell Wilds, D.D.S, L. G. Roff.
Little Mountain Long Creek Newberry Pelzer Saluda Santuck	Newberry Oconee	711 1000 502 850 536 512	30 30 32 41	77. 8 76. 0 77. 3 76. 8	+3.0 +0.8 +2.7 +3.2	95 95 94 96	†12 †11 12 17	60 48 50 45	19 81 21 21	35 41 42 46	7.42 7.24 4.28 5.67 1.89	+3.98 +3.79 +0.67 +1.95 -1.77		0000	5 5 4	20 13 23 15	16  4 12	3	s. w	Miss Elberta Sease. Mrs. K. L. Burton. John H. Baxter. Earl J. Frick. B. B. Blease. W. O. Jeter.
Spartanburg Trentou Walhalla Winnsboro Winthrop College II	Fnirlield York	824 620 1061 545 690	34	75. 9 78. 2 74. 6 78. 4 77. 4	+4.5	95 97	12 26 †16 †12 12	57 58 42 55 51	†21 †21 21	32 35 47 36 45			1. 90 1. 40 1. 12 0. 31	0	5 7 6 4	11 19 23 15 22	14 7 4 11 6	4 3 4 2	w. sw.	U. S. Weather Burcau. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division menns and Section means and	extremes			76.7		100	19	42	1	1	3. 48 4. 06	-0.24				1	7			

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division menus. Reference letters (a, b, c), appearing in the table indicate number of days missing; to example, by represents two days missing, etc. † Also on other dates. † Received too late to be included in means and summaries. "Temperature data are from observed readings of the day bulb; means are computed from observed readings. If Post-office addresses of these stations are as follows: Of Gaston Shouls, Blacksburg; of Wintirop College, Rock Hill; of Ferguson, Entawylle; of Casar's Head, Greenville; of Beaufort (near), Burton. Tereipitation is less than 0.01 inch of rain or melted snow.

# **ЕМВЕ**В, 1933

#### Daily Precipitation for September, 1933.

Day of mouth.

	Draimage-															DRY (	of m	onth															
Stations.	basitis.	ı	2	3	4	б	6	7	8	9	10	11	12	18	14	18	16	17	18	19	20	21	22	23	24	25	26	27	28	29	80	31	Tota
stern Portion.	Const	. 58	. 11	. 05	. 14		4. 98		. 75									Т	т.														6.61
ville Hile      stan	Const																	· dr										1 02	 T.	. 02			4.22 13.04
s    s	Pee Dee	Ť.		.09	Ť.	::::	. 66 2. 30	.61 4.60	. 33					·т.	1.21							Ť.									T. 23	.:::	2.94 7.16
gton	Pee Dee Lynches						1.20	1.80	.14									. 32													. 04	::::	2. 15
ce 1	Pee Deedo						. 10	1 85	. 20						. 05																. 02		5.41 2.22 2.30
reo illi	Savannah	. 33				2.00	. 12	• • • •	• • • •	• • • •				. 20																			2.73 6.13
t	Black	.03			.04		3.93 1.50	1.48 1.70	.78			::::	. 10	1.30																. 17	. 48 1. 07		6.82 6.35
Beach sharg	Const Edisto Cuoper	.28	1. 14		Ť.	. 03	1.94	.40	T.				::::									::::		::::									3.79 1.36
I (()) 7 14 111 111	Suntee Pee Dee					. 39	3.00 1.64	.18							2. 55																.18		3.57 5.90
/ Hill      erville      flela	Ashloy. Watereedo	1 02	. 06	03			5 75	. 17	- 17																								7.20 4.95 4.67
stern Partian.	Ashepoo	1.03	.20				4.12		. 22	• • • • •				• • • •					. 07														5. 64
son	Edisto Savannah Brond				. 16	. 13	1.48	1.19	. 06					.04					:::							::::							3.06 3.21
s Hend to Falls     n	Sahida Savannah Wateree				1.20	. 36	2,55	. 33		. 37															::::	::::	::::	:::					3, 46 4, 81 3, 41
ba      eds	Carnwba Saluda																																1.07
ce (near) m College abla ***	Broad Savannuli Congurce	.05				. 16	. 36	1.34	.11	::::				.02	:	26					••••			• • • •									1.97 2.14 2.19
nt	Enoree		. 03			.15	2.59	.89	••••	••••				••••		. 07	• • • • •		• • • •	•••		••••					• • • •	• • • • •	• • • •				3. 73 4. 81
Shoule III	Savannah Brond Sahida	.34		.34		3.1	1.04 1.90 .12	25							. 99																		8.51 1.61
tille vood      Springs	Saludado Wateree																													:::			2.48 4.06 1.05
w .II	Lyuches Broad				.03	т	. 97	. 36	. 04					. 18	. 03																		1.61
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rry	Saludado	.25			. 05	. 12	4. 52 . 13	1.65 3.10	. 66				.15	T .09	. 05		:::				::::	::::				::::					. 40		7.94 4.23
k	llroad				T.	1.10	2, 20 . 38	.12	Ť.				:::	1.95																T			5, 67 1, 89
nburg *** u lla	Edisto	. 05		. 70	. 05	. 20	. 43	1. 12	. 25	• • • • •			. 18		1.40			• • • • •			. 04	• • • • •	····				::::			)			3,76 2,91 3,72
on College	Brond	.04				. 11	1.12	. 33	. 06						. 95													)					2, 61 0, 83

teept as otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of reation. If Precipitation measured in the morning; amount their recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the nur period, midnight to midnight. \*\* Precipitation included in the next following measurement. Issuarate dates of falls not recorded. T. Trace, or less than 0.01 inch.

\*\*COMPARATIVE DATA FOR SEPTEMBER.

L								CO	MPA.	RAI	'IV	E DA	T	A FOR	SEP	TEMB	ER.										
		Temper	ature			Pree	ipitati	on		Nun	ber	of Day	rs			Temper	ature			Pree	eipitati	on		Nun	nber	of Da	ays
	Меан	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precip61 inch or more	Clear	Partly Cloudy	Cloudy
	72. 2 69. 6 72. 1 72. 9 74. 9 74. 7 75. 0 75. 0 76. 9 75. 0 76. 9 76. 1 72. 1 72. 1 72. 7 75. 2 76. 0	-2.3 -4.9 -2.4 -1.6 -0.2 -2.0 +0.2 +0.5 +2.4 +0.5 -1.2 +1.5 -2.4 -1.8 +1.7 +3.5 -2.1 -2.5	101 93 98 98 92 93 98 100 106 105 100 96 102 100 98 98 98 99 99 94	34 31 40 49 50 40 46 52 35 39 42 48 45 46 46 46 47 48 49 55 48 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40	1. 12 9. 86 3. 34 7. 84 2. 6. 41 4. 42 6. 51 2. 94 4. 06 2. 55 2. 83 4. 66 2. 46 3. 74 3. 62 2. 46 5. 91 4. 85 5. 91 4. 85 5. 91 6. 37 6. 37 6. 37 6. 37 6. 37 6. 37 6. 41 6. 51	-2. 98 +5. 76 -0. 76 +3. 74 -1. 44 +2. 31 +0. 32 +2. 41 -2. 81 -1. 16 -1. 19 -0. 04 -1. 55 -0. 36 -0. 48 -1. 64 -2. 19 +0. 75 +1. 81 -1. 26 -1. 27 -1. 86	2. 61 17, 90 7. 37 13. 6. 06 14. 95 13. 08 10. 94 6. 94 9. 21 10. 64 5. 25 6. 15 8. 40 7. 97 9. 43 9. 50 14. 37 10. 02 6. 98 8. 00	0. 12 5. 26 1. 46 2. 32 9. 31 1. 10 2. 34 T. 0. 50 0. 80 1. 12 0. 55 1. 08 0. 10 0. 60 T. T. 1. 43 2. 78 1. 43 2. 78 1. 43 2. 78 1. 40 2. 44 1. 40 2.		4 13 5 16  7 12 4 5 4 7 6 5 6 8 5 4 4 9 9 9 4 7	144 122 177 177 177 19 15 13 177 19 16 10 10 113 115 13	7 10 8 8 7 10 8 8 7 7 10 8 8 8 9 7 7 8	98556853786468668	1912 1913 1914 1915 1916 1917 1918 1920 1921 1922 1923 1924 1925 1926 1927 1928 1928 1929 1930 1931 1932 1933	77. 0 71. 7 71. 3 75. 9 71. 2 69. 8 74. 1 75. 5 80. 0 75. 2 75. 5 81. 7 77. 6 72. 1 72. 6 72. 1 72. 6 73. 2 77. 8	+2.5 -2.8 -3.2 +1.4 -2.3 -4.7 -0.4 +1.0 +1.0 -4.0 -4.0 -4.0 -4.0 -4.0 -4.2 +2.5 +1.1 -2.4 -1.9 +2.8 +3.0 -3.3 +3.3 -4.3 -4.7 -4.7 -4.0	109 99 101 102 99 98 96 99 100 104 100 111 101 96 97 107 103	47 40 43 43 45 40 36 45 46 57 47 50 41 55 50 38 39 40 44 44 42	5. 91 4. 66 3. 63 2. 38 2. 56 5. 75 3. 87 0. 97 5. 42 3. 42 1. 15 2. 67 12. 71 1. 86 2. 29 1. 63 12. 53 7. 36 4. 58 0. 98 3. 22 4. 06	+1. 81 +0. 56 -0. 47 -1. 72 -1. 54 +1. 65 -0. 23 -3. 13 +1. 32 -0. 68 -2. 95 -1. 43 +8. 64 -2. 24 -1. 81 -1. 81 -3. 12 -0. 88 -0. 04	11, 90 8, 87 7, 55 7, 56 6, 97 9, 76 7, 03 4, 14 10, 85 7, 54 9, 62 17, 32 3, 83 27, 06 16, 53 13, 60 18, 27 8, 16 13, 04	T. 0.69 0.83		11 97 55 77 10 77 63 36 15 54 43 10 13 10 38 85	10 14 16 17 12 18 22 16 19 18 16 19 18 16 17 17 17 17 18 14 10 11 12 11 12 11 12 11 11 11 11 11 11 11	779888556888959785710687	13 9 7 6 5 10 7 2 6 3 4 5 13 4 6 4 4 11 13 9 9 9 4
٠.	75.8	+1.3	103	46	3. 10	-1.00	7.05	0.68		7	15	12	3	Period.	74.5		111	31	4.10		27.06	0.00	0	7	15	8	7

						Г	ail	y T	'em'	per	atu	res	fo	r S	Septe	mb	er,	198	33.										1	- 1	1	
Stations.	1	2	3	4	õ	6	7	8	9	10	11	1 12	2   13	3 1	14 15	5 16	6 17	7 18	8 19	9 2	20 21	1 22	28	24	25	26	27	28	29 8	30 31	Me	ean
Eastern Portion.											1	98	04	97	90	92	95	92	94	93			88 9			90	u 89	91	91	88		192.0 170.9
Beaufort(near)   Maximum			s 90	0 91			6 8	8		is s		78 90	77 91	76 88	74 85	74 87	76	78 91	72	74 87 61	74 91	64 8	58 6	6 8	9 90	67 0 86	7 69	71	72 90 69	88		87. 7 67. 6
Bishopville Minimum	70 89	67 91	70 1 92	0 71	71	1 68 8 79 0 68	6 80 8 70 9 82 8 69	0 88 0 71 2 90	71 90 92	92 9	95 9	97	711	73 91	71 90 72	72 91 71	95		70 98	96	98	57 5 92 9 55 8 84 8	55 5 91 9 55 5 85 8	8 8	95	5 95	5 95	94 68	98 68 89	95		92.6 67.9
Huckville ) Maximum	69	70	72	2 73 5 87	3 70 7 84	0 68	5 69	9 70 5 90	744 775	70 7	93	71 94 76 94 72 95 70 94 72	95 72 91 79 95 70 96 75 99	74 89	72 89	90	70 91 73 91 68	98 72 90 78 94 69	98 69 90 76	65 86	63 95 76	84 8	55 8	1 8	7 86	6 86	5 95 2 68 6 86 3 71	88 74	89	86		92.6 67, 9 87, 9 74, 4
Charleston	84 74 90 65	84 74 88	8  90	7 80	72 8 8f	2 71 5 80	1 75	5 90 5 76 6 88 9 71	90 91 76 77 88 89	7 7	93 9 77 7 92 9	94	79 95	88	76 89	90 75 88 69	91	94	95 66	86 75 92 59 90 62	88	69 83 53 86 59	65 · 7 83 · 9 50 · 5 85 · 8 55 · 5 87 · 9 52 · 5	14 8 1 7 10 9 15 6 19 9 19 9 19 9 15 5 15 5	57 86 71 71 92 9- 14 60	4 92 0 6	2 90 4 64	90 69	74 89 70 91 67 94 72	85	::	66.3
Cheraws Maximum	65	64	8 8	0 96 0 72 9 91 0 70	6 85 2 72 1 89 0 70	5 80 2 69 9 78	8 8	7 9	1 7	2 7	70 7	95	70 96	91	89 71 90	90	91	96	95	90	60 95 64	86	85 8 55 8	9 9	11 9	1 90	0 90	90 69 92 68 93	91 67	88		90.3 67.8
Conway ) Maximum / Minimum	70	70 91	0 70	0 70	5 89	9 78 0 67 9 76	6 85	7 9 1 7: 5 96 9 7	10 9	92 9 72 7 92 9 73 7	72 94 72	94	75 99	88 72 91 75 91 72	72 88 71	90 73 89 72	91 70 91 69	96 70 96 68	95 71 97 71	93 60	94 66	88 58	87 9 52 5	2 9	61 6 94 9 59 6	7 9: 3 6:	5 92 9 64	93	94 72	92 · · · 71 · · ·		91. 6 67. 6
narlington yy / Minimum			8 70	0 70			A	4 9	90 9	90 9	01	0.2	93	93	89	90	93	97 68	95 71	90		87	87 9	91 9	90 9	2 8	9 90 0 63 12 90	94	9 t 69	87 72		89.9 67.0
Ferguson W ( Maximum / Minimum / Maximum	85 70 87	68	8 70 9 91	70 71	1 72 3 94	12 66 14 89 18 72	6 69	9 6	69 7	72 6	69	70 93 70 97 70	72 96	74 91 72	74 89 70	71 88 72	93	68 95 68	71 94 69	62 92 68	93	90 62	52 5 86 8 58 5	54 5	59 5	8 6	2 65	92	92	90		67.0 91.2 67.5
Florence I Minimum	. 70	70	0 71	71 71	1 78		86	86 9	95 9	69 92 71	70 94 72 94	97	99	98 72	91	92	69	100	98 66	68 95 67 90	67 97 62	89	92 50 87	92 9 55 6	97 9 60 6	14 9	94 94 94 94	94 62 4 95	68	94 · · · 65 · ·		494. 1 465. 9
(larnett ) Maximum Minimum Kingstree ) Maximum	69	70	70 30	93 96	6 89	89 83	69 83 88 69 70	8 9	69 7 93 9 71 7	71 7 91 9 74	72 94 72	95 71	70 98 73	98 76	90	89 73	93 69	71 96 72	94 70	90 60	95 64	87 58	87 S	93 9 57 5	93 9 59 6	14 9 52 6	94 94	4 95 4 69	70	V		92.1 67.7
( Maximum	1	.1		71 72			64 7							72		78		68	71	60	63	!		50 5	59 7	2 6	68	70	71	69		67, 2
Marion	. 70	70	3	70 70	1		4.	1									::::	::	:::						::::::	: :::	·					
Myrtie Beach / Minimum		6 88		90 90	00 8		82 8	31 8	89			95	95	91 76	88 73 89	90	93	96	95 70	92 64	95 67	89 58	88 54	89 57	62 6		91 96 53 63	0 89 7 68	91 5 70	87 70		90.0 68.5
Orangeburg   Maximum   Minimum   Minimum   Maximum   Minimum	70	0 69	69 7 94 9	72 77 96 97	73 73	73 6: 90 8	68 7 81 8	71 7 81 9 69 7	89 9 71 7 91 9 70 7 89 9 72 9 91 9 89 8	74 94 972 972 972 972 972 972 972 972 972 972	97	70 95 72	95 72 97 70 96 74 96 71 93	91	89.	72 89 70	71 90 69	71 97 67	95 68	91 62	67 94 60	58 87 51 88	87 52	57 91 52	94 9 52 6	05 9 61 6	93 86 61 65	6 91 2 65	70 1 92 5 70	70 87 69		*91.4 *65,5 90.9
A Maximum	. 84	4 80	86. B	68 69 88 97	91 8	82 8	83 8	69 7 84 8 70 7	89	92 75	95 73	72 96 73	96 74	94 75	90	90 73	93 71	99 71 94	98	92 68	60 96 69	61	87 52 90 53 85 52 85	92 58 88	60	01 9 01 6	90 93 62 6 90 9	5 67	1 94 68 1 92	69 86	:::	68.8 90.0
Sumter   Minimum   Maximum   Maximum   Minimum	. 71	8 9	90 9	73 73 91 92 69 7	2 8	78 7 84 7 70 6 82 7	70 7 78 8 67 7 78 8	70 84 70 70 83	91	92 75 92 73 89	0.1	91 70	96 71	91 70 91	74 87 70 92	90 70	93 71 91 65 92 68	60	95	90 59	95 58 92 65	61 87 53 85	52	54	91 9 58 6 90 9	91 9 62 6 90 9	61 6 92 9	5 68 0 96	0 90	70		66. 1 89. 7
Maximum	. 89	9	90 9	69 65	69 7	70 6	68 7	70 7	89	89 72	70 93 70	70 95 71 94	93	73	92 73	90 72	92 68	91 70 97 70	69 94 69 95	59 95 62 92 67	65	85 61	53	58 88	61 6	90 9	90 9	8 68	5 68 0 93	68		67.3 90.3
Vemassee / Minimum / Minimum / Maximum / Minim		5 9	68 6 90 9 69 7	69 69 90 90 72 70	92 8	81 8 73 6	82 8	84 9 69 6	70 92 68	72 91 72	70 91 72	94 71	94 72	94	89	90 68	91 69	97 70	95 65	67	95 65	85 57	50	54	60	62 6	60 6	4 6	4 68	66		66.7
Western Parlian.    Maximum   Mainum	84	12 7	70 7 87 8	72 7 86 8	93 9 74 6 89 7 70 6	90 7 69 6 79 7 67 6	78 7 67 6 70 7 66 6	68 75	88 70 85 70	72	90 73 90 69	92 71 91 69	73	73 85 70	5 86	72 90	71 91	95 72 93 69 77	94 71 93 66	61	65 87 63	91 56 86 54	89 56 84 53	56	63 88 55	64 90 59	80 8 62 6	19 6 19 9 18 6	90 90 7 66	21		89.2 68.5 86.7 65.5
Anderson   Minimum   Maximum   Cnesur's Head   Minimum		5							:::					80	0 75		79 54	62	60	61	63	51	53 71 47 85	4S	57 86	58	79 7 61 6 92 9	8 8 52 6 52 9	52 62 01 90	6 75 2 58 0 88		<sup>20</sup> 57. 6 88. 9
Maximum	. 8	85 8	85 8	70 7	71 6	65 (	68 6	76 69	85 72	84 69	90 69 96	95 70	71	69	9 67	91	96	94 69 96 71	96 66 90	63	92 62 93	51 86 54 87 53	54 79 52	85 55 91 58	53	65 95	66 6 94 9	67 6 95 9	66 66	6 68. 5 91.		66.0 91.7
Calboun Falls \$\langle \langle	9	91 9	69 94 68	94 9 71 7	97 72	84 72	68	81 69	72 91 70	69 95 71	96 72	97	7 98 3 71	93 72	3 91 2 71	71	70			68	59		- 1		58	63	-	1	1			67. 1 *86. 9
Cherokce (near)   Maximum	8:	83 8	86 65	86 8	89			75 65	84 68	89 68 88	92 64 98	69	68	89 71 90 8 65	3 85 1 70 0 90	88 66 92	67	98 63 91	94	54	58	89	83 44 85 47 86	88 51 89	52	91 55 93	57	55 6	88 96 61 63 92 9 65 6	87		*62.2 89.9 62.8
Clemson College / Minimum	6	65	65	95 70 91	89 70	71 89	68	67	71	67	66	66,	6 94	1 89	9 89	66	6 65	63	94 59 96 72 96	9. 55 9. 90 2. 67	58	84	86	55 89 61 90	51 91 67 93	93 56 92 70 95	91	89' 0	oni o	11 89		89.4 69.6
Columbia   Minimum	: 7	87 70 86	70 89	91 71 88	74	70 81	68	81 71 75 66	72 87 67	73 91 67	92 71 94 65	96 78 94	3 74 4 96	1 7: 6 85	14 72 85 90	71 95 65	1 70 3 92	72 96 64	72 96 59	2 67 6 92 9 54	2 86	87	58 87 49	61 90 52	93 56	95 56	93	91 9	93 9 64 6	0 72 94 89 93 64		89.5 62.4
Greenville	6	63	65	69	69			- 1					66	6 68		1	0 91	93	95	5 90	0 90	85	86	80	92	92 68	91	90	88 9	92 87		89.2 66.1
Greenwood   Maximum .	8	83 64 81	92 69 85	70		89 70	72 67	76 67	86 69 86	87 71 88	91 70 91	71	1 72	7 7	91 90 71 70 84 85 67 70			69 94	69	9 61 5 89	1 64 8 88	57	52 86	55	64	68 92 64	68 90 67	90 68 88 66	91 8	87 85		87.0
Heath Springs / Minimum	] 6	67	65	67	88 69 93	69	67 71 65 79	67 77 67 80	69 88	70	65	5 79 94	9 79	6 8	70	6 6 6 6 7 8 8	7 66	67	67	7 6	1 66 5 89	52	52 80	54 90 55 88	62 92 60	64 94 62	67 91 63	90	92 5	91 88		65.9 88.6 66.0
Kershaw Maximum	) 8	88	90 68 85	91 68 87 69	93 71 89	70 82 69 82 70 81 70 81	68	70	70 84	71	70 92	72	2 69 9 90 3 68	0 8	71 70 84 85 67 70 87 87 72 72 83 87 70 69	2 70	8 90	67	7 66	6 6	8 89	52 9 82 0 68 9 81	80 52 85 59	88 59	90	62 92 59 98	89 59	89 64	67 6 91 8 71 7	68 68 87 85 72 65 92 87		86.4 65.5
fandrum/ Minimum / Maximum / Maximum.	.:.	68 81 63 87	85 66 88	69	68 91	70	72 65 71	70 78 67 77 69	70 87	90	93	3 94	3 69 14 95	5 9	96 <u>9</u> 6	9 6 0 9	8 77	7 68 1 9-	8 76	6 6 5 9 5 5	0 89	9 68 9 81 9 49	52 87 52	52 89 53	54 92 58	98 62	92 61	931	91 5	92 87 67 68		89. 65.
Laureus / Minimum		68	68	69	69	68	68	- 1		69	69			5 9	92 88	8 9	69 69 10 99	3 9	5 9		1 90	0 90	89	90	92	93	92	93		89 89 66 67		89. 65.
Little Mountain   Muximum   Minimum		86 66	89 65	93 67	90 66	8 4 65	63	80 66	68	85 69	68				60 65	5 6	57 66	6 6	7 6	8 6	50 6:	2 62	61	65	66	65	65	66				
Long Creek / Muximum .		84	89	90	94	81	75	78		89	92	2 9	95	15 5	90 9	n 8	96	0 9	 13 9 15 6	94 8 35 5	88 8 56 5	7 19		9n 53	92 59	92	91 62	90 66	64	91 87 65 64	4	88. 68.
Newberry   Maximum   Minimum   Minimum   Minimum   Maximum   Minimum   Maximum   Maximum   Maximum   Minimum		66 89	65 90	67 91	67 91	65	64 75 68	66 78 69			8 67	7 65	68 69 93 9	11 9	68 61 93 81	(0 0	68 65 60 96 69 76	0 9	3 0	a3 C	56 5 60 5 91 9	2 85	85	89 5-t	91	93	92	90 62	90;	93 92 69 70	0	. 89. 65. 89.
Saluda   Maximum   Mluimum   Maximum		69 87	70		70 92	78 68 83 69	68 75 68	69 79 70	68 87 70 87	89 72 90	2 71 0 94	1 7	70 7 95 9	95 9	69 6 92 8 68 7	8 65	69 74 69 91 68 70	3 9		95 9	91 9 53 4	1 87	7 91 5 50	94 57	95	62 93 59	92 66	93 64	92 66	82 87 64 63	3	. 63.
Santnek Mulimmu,		69	67	66	68	69			1 1			1	- 1					n 9	91 9	90 8	0	7 89	83	86	89	90	89	98	88	87 76	6	. 85. 66.
Spartnuburg   Maximum   Minimum	.::	84 65	88 67 88	86 70	99 93	79 70 86	68	74 67 78	84 71 8 80	87 69 80	9 6	9 7	90 9 70 7 94 9	10	70 7	73 6	68 6	8 6	is 6	67 8 92 9	59 6 93 9	12 6: 98 88 35 51 87 8: 55 4: 91 8	2 57 5 89	57 91 67 89	58 91 67 92	60 94 70	61 95 70 93 58 92	67 92 67	66 89 67 94 61	91 88	8	80. 67.
Treuton		85 68	88 68 89	93 70 89	93 70 91	86 67 81		67	68	89 8 60 7 99	9 69 9 90 0 70	0 7	70 7	70 91 73 04	91 9 70 6 89 9 66 6	69 6	68 6 94 9 63 6	12 9 18 6 15 9 15 6	58 6 92 9 69 69 62 5 95 9	95	63 6 91 8	98 88 35 51 87 8 55 4 91 8	8 86	89	92	70 94 53	93	67 91 60	94	92 8 60 6	5	. 89. 59.
Walhalla   Maximum   Minfumm .		68 85 61	62	67	66.	67	65	67 75 65 81	7 68 5 68 1 88	8 64 8 90	4 62	62 G	64 6 94 9	95	66 6	86	87 9		95	95	52 F	15 4:	8 58 8 86 2 42 6 86 5 55	49 89	9 48 9 91 9 63	53 93 65	66	92 70	92 69	92 80 70 6	8	67.
Winnsboro W   Maximum Minimum,   Maximum		86 67 86	87 69	70	92 71 93	71 86	74 67 76	67 80	7 72 88	2 71 8 92	1 70	70 7 94 9	71 7	65 95 73 97	73 7	71 '	71 6	91 9	95	70 95 63	91 9	65 5 90 8 62 5	5 96	6, 91	94 6 55	96	93	92 70 92 67	92 67	91 9		90
Whithrop College Minimum.		66	66		69	69	66	64	69	9 68	8 6	67 7	70 7	70	71 7	70	68	66	55	fi 3	50	12 0	1 50					1				
		1		1	1	1	( )		4	A	AW	AV				1		1		1			1				1 1	1	-	d.	1	

Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

M instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W B O, Raleigh, 10-24-33-500

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R. H. SULLIVAN.

Vol., XXXVI. COLUMBIA, S. C., OCTOBER, 1933. No. 10

#### GENERAL SUMMARY.

The month was remarkably dry, with but one series of good rains. Temperatures averaged close to normal

The month opened with fair showers, followed by dry weather until about the 17th, when the general drought which had extended from mid-September was broken by ample rainfall in the major part of the Section; however, rain was again needed before the close of the month. Cotton picking made apid progress and had reached the gleaning stage by the end of the month; ginning was quite active, slowing down during rains about the 17th, followed by fair to good germination. Conditions were especially favorable for having, which was completed generally about the 31st, as also was sorghum molasses naking. The sweet potato harvest made good progress dur- drum, 17; Mars Bluff, 16, 18, 30; Spartanburg, 17. ing the month. Truck and late gardens suffered materially from drought, and considerable cabbage had to be replanted n the coastal sections; turnip planting proceeded during the ast decade. Fall plowing was rather backward, due to unsatisfactory soil conditions, except a short period after the 7th. Bean picking began on the coast about the 25th. All taple crops had advanced beyond danger from frost.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 42 stations, was 63.9°, or 0.3° above normal. The 24-hour amount was 9.82 in Aiken County. righest temperature was 95° at Kingstree on the 1st. The rum periods were generally on the 1st and 2d, about the 3th, from the 16th to the 23d, and from the 28th to the 1st, when the daily means ranged from 5° to 13° above rom the 25th to the 27th, when the daily means ranged from o to 12° below normal. The first autumnal freezing temperaares occurred in the extreme northern and northwestern secions on the 26th.

#### PRECIPITATION.

The average for the Section, 55 stations reporting, was .71 inches, or 1.32 inches below normal. Precipitation ocarred in three periods, but the showers were generally light. scept about the 17th. The measurements ranged from 3 to ver 4 inches in Aiken County and in small areas of the exeme southern and northwestern counties; elsewhere, the nounts ranged downward from 3 inches to less than one-half inch. The greatest monthly amount was 4.65 inches in Aiken; least local monthly amount, 0.21 inch at Marion. The greatest amount during any 24 hours was 3.59 inches at Aiken on the 1st. The average number of rainy days was 20% below normal. There was no snowfall.

#### RIVER CONDITIONS.

The Santee River was near or somewhat above flood stage at Rimini during the first half of the month, and the lower Broad and Santee Rivers averaged above norn al. The stages in the remaining streams ranged generally below

#### MISCELLANEOUS PHENOMENA (dates).

First Killing Frosts or Freezing Temperatures. - Caesars Head, the last week. Winter cereal sowing was delayed until after the Heath Springs, Little Mountain, Long Creek, and Society Hill, 26; Cherokee (near), 27.

Halos-Lunar: Charleston, 30. Solar: Charleston, 5. Fog, dense. - Beaufort (near), 14; Charleston, 19; Lan-

# COMPARATIVE OCTOBER DATA, BY COUNTIES.

The highest average temperature to the close of 1920 is 66.9° in Jasper County, and the lowest, 59.4° in Oconee County. The greatest average daily range is 24.8° in Pickens and Florence Counties, and the least, 19.6° in Charleston The absolute highest temperature for this month was 101° in Chesterfield, Darlington and Marlhoro Counties. The absolute lowest temperature was 13° in Oconce County.

The greatest total monthly rainfall of record for any Octoher was 14.51 inches in Greenville County, and the greatest

Killing frosts or freezing temperatures usually occur in the extreme northwestern edge of the Section as early as October 23, extending to the edge of the Piedmont in early November.

Snow flurries occur at rather rare intervals in the Piedormal. The lowest temperature was 29° at Caesars Head mont Counties during the last week, and the greatest total n the 26th. The cold periods were on the 9th and 10th and monthly amount of record at any station was 0.2 inch at Due West in 1926.

# PRESSURE, WIND, HUMIDITY AND SUNSHINE.

	Atr (re-	nosphe	eric to se	pressui a-leve	e 1)		Win	nd			elati mid		of shine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage of sunshine
Asheville, N. C Augusta, Ga. Charleston, S. C. Charlotte, N. C. Columbia, S. C. Savannah, Ga Wilmington, N. C Means and ex- tremes	30, 15 30, 08 30, 06 30, 12 30, 09 30, 05 30, 09 30, 09	30.33 30.35 30.46	21 19	29. 64 29. 70 29. 66 29. 65 29. 64 29. 65 29. 70 29. 64	7 5 5 7 7 5 5 7	6.8 5.7 11.3 10.9 6.7 9 9 7.6	29 20 27 34 25 29 22	nw. w. ne. sw. sw. s. s.	25 8 25 8 8 21 17	87 82 81 78 82 86 82 83	48 49 63 50 53 62 56	65 65 78 52 60 78 76	69 87 76 57

#### Climatological Data for October, 1933.

						Thurs								a	
record,	Tempera	ature, in	degrees F			recip	itation.				ber o	fds	ys.	ectio.	
Stations. Counties. con le con	Mean. Departure from the normal.	Highest.	Lowest.		range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfull, unmeited.	With precipit on (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing direction or wind.	Observers.
Eastern Portion,			111 9								1		1	Ì	
Beaufort (near)33   Beaufort   21   53   bishopville   Lee   224   50   Blackville   Barnwell   296   50   Churleston   48   63	68.0 +0.2 64.1 67.9 +2.9 68.6 +0.8 63.4 +1.2	86 89 94 84 90	1 <sup>b</sup> 47 1 37 1 41 2 49 1 35	26 26 26 26 26 26	35 41 21 40	3.30 2.54 1.20 2.81 0.93	+0.12 -1.51 -0.46 -1.96	1, 35 2, 05 0, 83 1, 61 0, 64	0 0 0 0	4 3 4 7 3	24	10 6 10 8	6 1 4 9	e. ne. ne.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews U. S. Wenther Burean. Rohind D. Powe.
Durlington   Darlington   175   39	66.0 +1.1 65.3 +1.6 64.8 +0.6	89 93 	1 °39 1 35	26 26 26	°42 42 	0. 91 0. 46 1. 03 2. 63	-2.26 -2.58 -2.00 -0.29	0.51 0.30 0.59 1.03	0 0 0 0	4 4 5	20 21  20	0 2 	11 8 	se. ne.	Perry C. Quattlebann. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 2   do   136   19   Garnett   Humpton   82   16   Kingstree   Williamsburg   54   52	65.2 +1.0 66.7 -0.8 66.8 +2.1	89 91 95	1 35 1 38 1 39 35	26 10 †10 26	42  45 45	1.05 0.45 1.83 0.74 0.21	-1.99 -2.59 -0.51 -1.98	0. 52 0. 28 1. 03 0. 30 0. 21	0 0 0 0	3 2 6 4 1	19 25 12 28 30	8 4 12 0 0	4 2 7 8 1	e.	H. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Mrs. Ellen Scott. Dr. Charles B. Whilden.
Myrtle Beach	66. 7 61. 8 +0. 9 -2. 4	°90 85	1 °40 1 40	26 .	*39	0.63 0.57 1.58 0.53	-1.54 -1.33 -1.70	0, 40 0, 45 0, 85 0, 22	0 0 0 0	3 4 4	17 16	6 10	8 5	ne.	Rosa R. Davis. J. E. Bryan, Jr. U.S. Fisheries Station. Miss E. P. Ravenel. Marion P. Sweatman.
Society Hill   Darlington   192   43   4   Summe ville   Dorchester   75   36   Sumter   169   12   Wedgedeki   Sumter   249   43	163.8 +1.2 66.2 +0.4 65.0 +1.0 65.2 +1.2 66.2 +0.5	*93 91 90 93 93	1 d32 1 41 1 37 1 38 1 39	†26 10 26 26 10	41 41 41 38 42	1.09 1.43 0.24 0.40 2.14	-1.93 -1.64 -2.52 -2.34 -0.62	0.90 0.49 0.22 0.40 1.00	0 0 0 0	3 5 2 1 4	22 19 23 25 18	5 5 6 2	4 10 3 0 11	n. ne. ne. ne.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. G. Hutson.
Division means and extremes	65.6 +0.6	95	1 32	†26	45	1. 25	-1.59	2.05	0	4	20	5	6	11e.	
. Western Portion.											1				
Anderson         764         41           Blairs         Pairfield         293         29           Cesurs Hend‡‡         Greenville         3118         10           Cathonn Fails         Abbeville         508         35	66. 5 +2. 4 63. 3 +0. 1 54. 0 65. 0 +2. 1 64. 0 +1. 1	90 89 	1 40 1 36 1 29 1 39 1 38	26 26 26 26 26 26	31 35 36 42 41	4. 65 1. 11 1. 26 3. 41 1. 43 0. 87	+1.96 -1.71 -1.36 -1.58 -1.88	3.59 0.88 0.98 2.00 1.25 0.40	0 0 0 0 0	3 4 3 4 2 3	22 25 17 21	2 2 5 8	7 4  9 2	ne. e. w.	Frank B. McCoy. 11. 11. Russell. Sarah L. Owens. Cæsar's Head—P. Mtn. Co 1. M. Parker. Henry A. Brown.
Clemson College Oconee 850 42	60.3 63.4 65.5 +1.2	89 91 88	1 32 1 38 1 40	27 † 9 26	48 45 31	1.82 2.28 1.10 0.40 1.05	-1.45 -0.39 -2.86 -1.51	1.04 1.52 0.38 0.25 0.63	0 0 0 0	3 6 4 4 5	26 21 19	3 8 6	 2 7 6	w. ne,	James C. Faris. William Spearman. Spartmibnrg Water Works Prof. F. H. H. Calhonn. U. S. Weuther Barean.
	62.5 +2.3	93	1 37		41	3.18 1.63 1.45 2.27 0.64	-1.17 -0.71 -2.48	1.45 1.12 1.40 1.03 0.51	0 0 0 0	5 3 2 6 5		5	6	nw.	Duke Power Co. J. C. Doscher. A. A. Foreman. Southern Public Utilities Walter R. Hall.
Greenwood   Greenwood   671   50   10-401 Springs   Laucaster   568   32   Kershaw   500   18   13-40-101   10-31	63.8 +1.6 62.6 +0.3 63.6 -0.2 61.8 -0.4 *63.3 +0.9	92 91 93 88 *91	1 38 1 32 1 35 1 33 1 *36	26 26 26 27 26	38 35 39 41 *41	1.69 1.16 1.82 1.44 0.63	$ \begin{array}{r} -1.24 \\ -1.52 \\ -0.98 \\ -2.76 \\ -2.71 \end{array} $	1. 12 0. 74 1. 05 0. 62 0. 28	0 0 0 0	5 5 8 5 4	20 20 15 23 25	0 1 0 5 4	1	w. e. e. ne. w.	M. M. Calhoim, J. Marvin Bowers, John W. Hamel, R. Hartwell Wilds, D.D.S L. G. Roff.
Little Mountain         Newberry         711         41           Long Creek         Occuses         109         45           Newberry         797         80         20           Pelzer         Anderson         85         30           Saluda         Saluda         536         32           Sanutack         Unior         512         41	63.6 -0.3 60.3 -1.0 62.4 -1.0 62.4 -0.5 62.1 +0.2	90 90 90 90 91	1 32 1 32 1 36 1 36 1 38 1 34	26 26 26 26 †25 26	40 41 41 41 41 46	1.53 4.57 2.23 1.42 2.48 3.06	-1.40 -0.55 -1.83 -0.50 +0.01	1. 10 2. 00 0. 87 0. 77 1. 30 1. 36	0 0 0 0 0	6 6 7 6 5	22 22 21  21 21	5 5 6 7	5	w. n. e. sw. ne.	Miss Elberta Sease. Mrs. K. L. Burton. John H. Baxter. Earl J. Friek. B. B. Blease, W. O. Jeter.
Spartanburg   Spartanburg   824   57	61.4 +0.5 66.0 +1.3 60.5 -0.3 63.1 +0.5 62.7 +0.2	88 90 92 83	1 37 1 44 1 34 13 435 1 33	27 27 26	33 38 46 536 41	3, 71 3, 85 2, 32 2, 58 2, 10	+0.96 +0.83 -1.11 -0.59 -0.65	2, 20 1, 91 1, 06 2, 00 1, 62	0	6 6 3		5 9 3 7 8	6 3	ne. e. ne. ne.	U. S. Weather Bureau. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division means and extremes	62.7 +0.1 63.9 +0.3	93 95	1 29 1 29	1	46 46	2.03 1.71	-0,93 -1,32	1			21 20	5		ne.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference betters (e. p. c), appearing in the table indicate number of days missing: for example, by represents two days missing; and the property of the pr

### Daily Precipitation for October, 1933.

	Draininge-															ny	of m	outh															
Stations.	busins.	1	2	3	4	Б	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	30	81	Tota.
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kville III	Black.		,15															. 53	T.			Ť	.05	. 17	T								2.81
rleston ***		T.	. 02							. 13						.06		. 50			1	Т	. 38	. 99	. 73								0.93
way III	Peedce Witcennia			90											7:			T.	- 03														0.91
	witeen untw	.25	7.	4.																													0.40
Ington III	Peedee																	. 30	. 02					. 10	. 03								0.46
ighum III	Lynches		, 21															, 59					. 14		. 09								2.63
ence 1	Peedee		. 07	1.03														50						19	.33								1.05
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lett	Savannah													1			. 05	1.03			T.	. 09	. 40	. 22	. 04								1.83
																																	0.74
zetree III	Illack			.05														. 30						.20									0. 21
s Hpff	Peedee																	19						. 21	0.5								0. 63
tle lleach	do	. 40																. 19						. 00	. 00								
Reburg	Const																						. 45	. 04									0.57
qualis	Cooper		.45															.12					.16	.85									1.58
																																	0.53
int (()	Suntee	. 12	.04															. 22															1.09
ety Hill      merville	Poudee																	16	. 02				07	. 90	40								1, 43
ter	Ashley Wateree			. 32					• • • •									. 10					02	.22	. 49								0.24
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toun Falls []]	Savannah																3 .	1, 25					. 18	T.									1.43
den ##	Wateree		. 40															. 25						. 22									0.87
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poetls III	Saluda																.05	1 52					. 07	.00							1111	11111	2.28
Okee (near)	Broad		1.29														.08	. 38						.35									1.10
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ambia ***	Conguree	.17	. 23														.06	. 58					.01	T.									1.05 3.18
cent	Enoree	1.31														.06	1.39						. 24	. 18									0, 15
efield (1)	Savannah	40	11				3										1	1, 12												1			1.63
aton	Savannah							****							1111			1, 40						.05									1.45
	Broud		1.97														. 05	. 98				. 05	. 15	.07									2.27
nvlile ***	Sainda																. 10	.41				.02	. 03	. 08									1, 69
n wood	Wateree	. 03	.24														. 10	1. 12					.04	. 82	. 12								1.16
	Wateres	.00	. 24							V								. /4					.04	. 09									
haw .!!	Lynches		1.05															. 31						.46									1.82
Irmm	Broad	1 . 19	0 . 12														. 47	. 62						.04									1.44
ens	Saluda	1.	. 17																			T.	. 10	. 28	T.								0,63
e Monutaln g Creek	Saluda	1 . 03	00														. 07	. 90					.30	. 05									4, 57
berry	Savannah		2,00														.72	1, 50				02.	. 14	.73	.07								2.23
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usboro III	Broad	.12									1				1		. 09	2.00	)				. 04	. 12	.16								2, 53
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12	. 4. 2/							. 1.	1		1																					ima	of.

Except as otherwise indicated, observations are generally made late in the afternoon, near siniset, and precipitation recorded is for the 24 hours ending at the time of servation. |||| Precipitation measured in the morning; amount then recorded is for the precipitation is precipitation in the morning amount then recorded disperses the precipitation in the morning amount then recorded as the precipitation included in the next following measurement. Is character dates of falls not recorded. The Trace, or less than 0.01 inch.

#### COMPARATIVE DATA FOR OCTOBER.

								-																	/		
		Tempera	ature			Prec	ipitati	on		Num	ber	of Da	vs			Tempera	ature			Prec	pitati	on		Nun	ber	of Da	ys.
ear	Mean	Departure	Highest	Lowest	Average	Departure	Greatest	Least Monthly	Average Snowfall	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highert	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip. ,61 inch or more	Clear	Partly Cloudy	Cloudy
	61. 4 59. 3 60. 8 63. 0 63. 8 64. 4 61. 3 61. 3 65. 8 62. 9 64. 2 67. 6 62. 4 63. 2 64. 2 67. 6 62. 4 64. 2 64. 2 67. 6 62. 4 64. 2 61. 3 61. 3	-2.2 -4.3 -2.8 -0.6 -3.4 +0.2 +0.8 +0.6 -2.3 -2.3 +2.2 -0.7 +0.6 -1.2 -0.4 -1.6 -1.7 -2.4 -1.6 -1.7 -2.4 -1.6	91 88 99 99 99 95 95 95 95 95 95 95 95 95 95	30 31 27 22 25 27 25 33 28 35 28 35 28 39 20 25 26 27 28 37 28 37 28 37 28 37 28 37 28 37 28 37 28 37 37 37 37 37 37 37 37 37 37 37 37 37	5. 96 4. 18 1. 65 4. 06 1. 63 0. 60 4. 92 4. 95 1. 15 1. 41 3. 23 3. 82 0. 80 4. 40 2. 63 1. 10 1. 97 3. 69 0. 73 4. 22 2. 24 2. 22 2. 22 2. 23 2. 24 24 24 24 24 24 24 24 24 24 24 24 24 2	+2. 93 +1. 15 -1. 38 +1. 03 -1. 40 -2. 43 +1. 89 +1. 92 -1. 82 -1. 62 +0. 20 +0. 79 +1. 97 -0. 40 -1. 93 -1. 06 -2. 30 +1. 19 -2. 14	10. 11 7. 83 3. 91 7. 37 4. 20 1. 78 8. 16 8. 34 2. 71 2. 704 7. 81 9. 63 4. 75 5. 20 9. 42 9. 42 9. 44 9. 4	2.15 2.01 0.10 0.99 0.18 0.00 0.72 0.50 0.09 0.38 1.20 1.58 1.97 T. 2.24 0.86 0.00 0.64 0.00 1.41 T.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 7 3.  5 3 4 5 9 6 9 3 7 5 3 6 7 3 6 6 7	18 20 20 15 14 14 14 12 22 21 18 23 15 14 19 19 23	767888877656566765	6 5 4 8 9 9 10 11 3 7 7 3 10 11 5 6 3	1912 1913 1914 1915 1916 1917 1919 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1931 1932 1933 1933 1933 1933 1933	65. 0 62. 5 64. 7 67. 0 64. 0 59. 3 67. 8 73. 7 64. 5 62. 6 64. 5 62. 9 65. 8 66. 4 61. 1 60. 5 63. 9	+1. 4 -1. 1 +1. 1 +2. 4 +0. 4 +0. 4 +3. 7 +10. 5 -1. 0 +0. 9 +0. 7 -1. 4 +0. 3 +1. 5 +2. 2 +2. 8 -2. 5 -3. 1 +0. 3 +0. 5	94 95 92 93 92 90 93 101 92 90 89 98 96 93 92 88 88 88 96 95	32 28 26 27 31 22 33 44 25 27 31 29 28 26 26 32 32 32 32 32 25 31 29	2. 21 3. 56 3. 44 4. 95 2. 54 1. 50 3. 75 2. 53 0. 76 1. 79 5. 57 1. 14 1. 50 2. 93 1. 44 3. 25 1. 91 7. 81 2. 18 0. 6. 99 1. 71	-0. 82 +0. 53 +0. 41 +1. 92 -0. 49 -1. 53 +0. 72 -0. 50 -2. 27 -1. 24 +2. 54 -1. 53 -0. 10 -1. 59 +0. 22 -1. 12 +4. 25 -2. 23 -2. 24 +4. 25 -2. 23 -2. 24 -2. 24 -3. 25 -2. 23 -2. 24 -3. 25 -2. 23 -2. 25 -2. 23 -2. 25 -2. 23 -2. 25 -2. 23 -2. 25 -2. 23 -2. 25 -2. 23 -2. 25 -2	4, 88 8, 58 6, 51 9, 38 6, 96 4, 03 13, 91 8, 43 2, 44 4, 44 9, 00 2, 96 3, 20 6, 35 4, 51 7, 47 6, 61 12, 69 5, 07 3, 06 14, 51 4, 65	0, 52 1, 11 1, 17 2, 54 0, 88 T 0, 50 0, 18 0, 06 0, 20 3, 04 0, 12 0, 56 0, 70 0, 00 0, 49 0, 62 0, 88 0, 75 T 0, 3, 47 0, 21	0 T. 0 0 0 T. 0 0 0 0 0 0 0 0 0 0 0 0 0	5 6 8 8 5 4 5 5 5 2 4 8 8 4 2 8 5 4 5 6 6 5 3 6 6 4	18 19 18 16 23 15 13 124 21 18 18 228 17 20 17 20 17 18 18 19 21 18 22 23 24 21 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	4 6 7 7 7 5 8 10 4 4 5 6 8 5 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5	96 116 838 886 875 975 8874 86
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gstree ) Maxinum / Minimum / Maxinum	67	67	63	61	81 60	55	43	55	52	39	41	44	50	56	55	59	66	55	53	84 56	63	66	65	58	51	39	44	43	48	50	48
rion   Maximum   Minimum   Maximum	68	66	63	59	58	51	48	56	53	39			51	57	48	57	68	54	51	65	60	63	61	56	48	35	42	40	44 .		46
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throp College / Minimum	93	83 65	72 58	76	80	74	80 46	78	74	75	80	82 49	81	73	75	69 53	77	80 51	49 68 43	80 48	81	78 62 79 59	75	68	61	60	69	77	78	\$1 44	78
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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

M BO, Raleigh, 11-23-33-900

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

R. H. SULLIVAN.

Vol. XXXVI. Columbia, S. C., November, 1933. No. 11

#### GENERAL SUMMARY.

The month was unusually cool and dry, on the whole, and freezing temperatures overspread the Section earlier than the Section were below flood stages throughout the north. normal for the autumn.

On account of generally deficient rainfall, which was widely scattered, plowing proceeded under generally unsatisfactory conditions. Winter cereal sowing was active; most early plantings showed fairly good stands, but lack of moisture retarded germination of later seedings in considerable dwindled. The sweet potato harvest ended during the first week. All staple crops were beyond danger from frest, which occurred a little earlier than usual. Notwithstanding the generally light rainfall, winter truck on the coast maintained good condition, with spinach coming up at the close of the month. Pastures deteriorated generally. Hcg butchering and some progress during the cold periods. Apples and fall truck were marketed in season. The weeds were generally G. C. M. bare by the 18th.

#### TEMPERATURE.

The monthly mean for the Section, determined from rehighest temperature was 85° at Garnett and Kingstree on the vember was 9.82 inches in Georgetown County, and the 1st and at Trenton on the 1st and 2d. The warm periods were greatest 24-hour amount was 5.81 inches in Charleston from the 1st to the 4th, about the 12th, from the 20th to 23d County. and on the 29th and 30th, ranging from 5° to 15° above normal compared with daily mean temperatures. The lowest temperature was 13° at Caesars Head on the 15th. The cold lower coast region about the 18th to 21st. periods were generally from the 5th to the 11th. 14th to 17th and about the 27th, with daily mean temperatures ranging rather rare along the immediate lower coast. The greatest from 5° to 18° below normal. The line of freezing temperatoral monthly amount of record at any station was 5.0 inches tures advanced southward over practically the entire Section at Clemson College in 1912. on the 8th and 9th.

## PRECIPITATION.

The average for the Section, 54 stations reporting, was 1.23 inches, or 1.09 inches below normal. Precipitation occurred in three periods, but the amounts were generally light. In a small area of the coastal plain and in the extreme northwestern counties, the measurements ranged from 2 to over 4 inches, while in the remainder of the Section the totals ranged downward from 2 to less than one-half irch. The greatest local monthly amount was 4.66 inches at Summerville; least local monthly amount, 0.23 inch at Kershaw.

The greatest amount during any 21 hours was 3 55 inches at Summerville on the 2d and 3d. The average number of rainy days was 20% below normal. Light hail occurred at Bishopville, Ferguson, Garnett, Summerville and Wedgefield on . OL I HARY OF the 13th.

HIVER CONDITIONS.

On account of the generally light rainfall, all streams of

### MISCELLANEOUS PHENOMENA (dates).

Killing Frosts or Freezing Temperatures. -8th, 5 stations; 9th, 28; 11th, 1; 15th, 1.

Fog, dense. - Bishopville, 7; Blackville, 19; Chappells, 19; Cheraw, 23; Columbia, 7; Landrum, 6; Long Creek, 6; areas. Cotton ginning was slow and irregular as picking Mars Bluff, 1, 7, 19, 23, 28, 29; Santuck, 19; Sumter, 8; Trenton, 18; Winnsboro, 7; Yemassee, 21.

### COMPARATIVE NOVEMBER DATA, BY COUNTIES.

The highest average temperature to the close of 1990 is 57.4° in Beaufort and Jasper Counties, and the lowest, 48.6° in Oconee County. The greatest average daily range is 16 %in Bamberg County, and the least, 21.7° in Charleston County. The absolute highest temperature for this month was 92° in Hampton, Jasper, Orangeburg, Clarendon, and Berkeley Counties. The absolute lowest minimum temperature was 2° above zero in Greenville County.

The greatest total monthly rainfall of record for any No-

Killing frosts or freezing temperatures usually extend over the middle counties about the 12th to 15th and the

Snow flurries are more or less general at intervals, but

PRESS	URE	wi	ND,	HUI	MII	YTI	ANI	SU	NSE	IIN	Ε.		
	Atn (rec	osphe luced t	rie p	ressur a-level	e )		Win	d			lativ midi	tv	ge of sunshine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage
heville, N. C	30, 12 30, 11 30, 10 30, 09 30, 11 30, 11 30, 10	30, 63 30, 60 30, 59 30, 60 30, 62 30, 57 30, 64	17	29, 62 29, 70 29, 68 29, 57 29, 65 29, 75 29, 61	14 14 14 14 14 14	8.8 5.7 10.0 11.8 7.1 10.4 8.7	29 24 35 38 27 43 32	nw. w. nw. nw. sw. nw. nw.	14 13 18 26 13 13 13	76 80 77 63 80 76 78	46 44 52 46 46 50 49	61 54 70 48 55 68 60	61 75 72 78 77 74 71

# Climatological Data for November, 1933.

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			record,		Temper	ature,	in de	rees F	anr.		Preci	pitation	in in	lies.	Nui	nber	of d	ays.	tion	
Stations.	Counties.	Elevation, feet.	Length of re	Меап.	Departure from	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelled.	With precipit on (0,0) in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing direction or wind.	Observers.
Eastern Portion.			1									-								
Beaufort (near)## Bishopville Buckville Churleston Cheraw	BenufortLee. BarnwellCharlestonChesterfield	21 224 296 48 144	53 50 63 52	456.4 53.0 55.5 57.0 51.2	-2.5 -0.1 -1.1 -0.8	478 78 82 77 78	5 2 1 1 † 1	432 24 26 35 19	15 17 †16 16 17	410 411 46 24 48	1.06 0.70 1.24 2.25 1.09	-1.05 -0.79 +0.11 -1.10	0.94 0.28 1.00 1.71 0.52	0 0 0 0	4 5 4 3 4	20 22 15 20	4 3 13 2	6 5 2 8	w. sw.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews U. S. Wenther Bureau. Roland D. Powe.
Conway Darlington Ellingham Ferguson‡‡	Darlington	25 175 106 63	45 39 43 48	54.2 52.4 53.0	-0.4 -0.6 -2.0	80 83 	† 2/2 2	23 19 24	16 17 17	46 50 	0.76 0.79 0.27 2.06	-1.50 -1.32 -1.83 -0.08	0.50 0 25 0.27 0.91	0 0 0	3 5 1 4	20 19 	0 1 	10 10 	nw.	Perry C. Quattlebaum. D. C. McCull. Wm. B. Gillespie, Henry C. Savage.
Florence 1 Florence 2 Garnett Kingstree Marion	Florencedo	136 136 82 54 68	52 19 16 52 9	52. 4 54.5 54.2	-1.7 -2.7 -0.7	84 85 85	1 1 1	21  23 20	17 17 17	44 49 48	0.73 1.13 1.22 0.43	-1.48 -1.08 -1.27 -1.66	0, 27 0, 56 0, 63 0, 30	0 0 0 0	6 3 4 4	18 22 17 22	5 2 9 1	7 6 4 7	ne. w.	H. K. Gilbert. Pee Dee Experiment Sta. Muner B. Robert. Mrs. Ellen Scott. Dr. Charles B. Whilden.
Mars Bluff. Myrtle Beach (trangeburg Pinopolis** Rumini	Florence Horry Orangeburg Berkeley Suniter	92 30 264 54 97	10 2 19 87 20	53. 9 49. 6	-1.0 -4.7	79 74	† 1 † 3	24 22	17 16	41	0.93 1.68 1.75 1.10	+0.15 -0.68 -0.78	0. 54 1. 30 1. 00 0. 54	0	4 4 3	17 23	3 2	10 5	sw.	Rosa R. Davis. J. E. Bryan, Jr. U.S. Fisheries Station. Miss E. P. Ruvenel Marion P. Sweatman.
Society Hill Summerville Sumter Wedgefield Vennssee	Darlington Darchester. Sumter Sumter Hampton	192 75 169 249 24	43 36 12 43 45	*51.8 53.8 52.5 53.2 54.4	-0.3 -1.9 -1.6 -0.9 -1.5	*83 80 82 84 82	1 1 1 1 2 1	*20 23 19 24 25	17 17 17 16 16	*50 46 47 44 46	0.56 4.66 0.46 1.00 1.69	-1.69 +2.35 -1.60 -1.08 -1.61	0. 14 3. 55 0. 18 0. 47 0. 98	0 0 0 0	5 5 4 4	16 17 21 22 20	11 5 4 5	3 8 5 3 8	W. W. W. W.	E. D. Fields, Jr. Clemson Coast Exp. Sta Somter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extremes			53.5	-1.5	85	1	19	17	50	1. 25	-0.96	3.55	0	4	20	4	6	w.	w. C. mason.
Western Portion,																				
Alken Anderson Blairs Casars Head‡‡ Cathonn Falls Camden	Aiken	527 764 293 3118 508 222	72 41 29 10 35 84	55. 0 52. 4 44. 1 52. 6 50. 4	+0.6 -0.2  +1.4 -1.7	79 79 73 80 81	1 1 3 3 1	26 25 13 26 20	16 16 15 16	43 41 48 40 45	0.82 1.23 0.72 2.06 0.48 0.86	-1.72 -1.46 -1.53 -1.97 -1.48	0. 41 0. 76 0. 30 1. 46 0. 29 0. 36	0 0 0 0	4 2 4 2 2 7	24 23 17 15	2 2  5 11	5  8 4	nw. w	Frank B. McCoy H. H. Russell. Sarah L. Owens. Cwsar's Head—P. Mtn. Co L. M. Purker. Henry A. Brown.
Catawba Chappells Cherokee (near) Clemson College Columbia	Vork Newberry Spartanburg Oconee Richland	562 402 758 850 351	28 29 6 42 47	50, 2 52, 1 53, 8	+1.1 -0.2	76 81 78	† 1 3 1	17 20 27	17 †11 16	50 51 33	0.83 0.60 1.96 2.58 0,40	-1.62 -1.65 -0.28 -1.58	0. 21 0. 31 1. 04 1. 60 0. 18	0 0 0	5 4 3 3 5	21 22 19	6 2 5	 8 6 6	 W. SW.	James C. Faris. William Spearman. Spartanburg Water Works Prof. F. H. H. Calhonn. U. S. Weather Burean.
Crescent. Edgefield Ellenton Gaston Shouls 11. Greenville.	Spartanburg Edgefield Aiken Cherokee Greenville	630 550 76 680 1039	7 21 2 31 50			80	3	18		48	1, 84 0, 71 0, 49 2, 21 2, 18	-1,63 -0,54 -1,00	1.12 0.31 0.26 0.92 1.01	0 0 0	4 3 3 5 5		5		nw.	Duke Power Co. J. C. Doscher. A. A. Foreman, Southern Public Utilities, Walter R. Hall.
Greenwood Heath Springs Kershaw Landrum Laurens	Greenwood. Laucaster. Kersbaw Spartauburg. Laureus	671 568 500 1063 589	50 32 18 19 16	51.8 50.6 51.0 51.4 51.5	-0.1 -1.3 -1.7 +0.5 +0.6	84 79 79 79 79 78	† 1 1 30 † 1	22 22 22 18 20	17 17 17 17 17	44 45 45 47 48	0. 52 1. 00 0. 23 1. 61 1. 19	-2, 15 -1, 20 -1, 82 -1, 90 -1, 71	0.44 0.33 0.23 0.98 0.74	0 0 0	2 5 1 3 3	22 20 15 22 19	0 0 6 9	8 10 15 2 2	W. S. W. W.	M. M. Calhonn, J. Marvin Bowers, John W. Hamet, R. Hartwell Wilds, D.D.S, L. G. Roff.
Little Monutain. Long Creek. Newberry. Pelzer Salnda Santnek.	Newberry Oconee Newberry Anderson Saluda Union	711 1000 502 850 536 512	30 30 30 32 41	52. 0 48. 8 50. 7 50. 6 50. 1	-1.6 -1.8 -2.1 -0.9	77 77 77 83 77	† 1 1 	23 16 19 18 15	16 17 17 17 †16 17	44 53 44  48 50	0, 60 1, 85 0, 62 1, 87 0, 75 1, 34	-1.77 -1.99 -0.93 -1.74 -1.50	0.55 1.02 0.33 0.97 0.35 0.70	0 0 0 0 0	3 6 8 4 5	23 22 19  24 17	4 6 3  5	3 2 8  1 6	W. W. W. SW.	Miss Elberta Sease. Mrs. K. L. Burton. John H. Baxter. Earl J. Frick. B. B. Blease. W. O. Jeter.
Spartanburg Trenton Walhalla Winnshoro Whithrop College !!	Sportanborg Edgefield Oconee Fairfield York	824 620 1061 545 690	57 41 34 40 34	51.1 54.5 49.4 *52.5 51.0	+0.5 +0.3 -1.0 -0.2 -0.8	75 85 80 •78 79	† 1 † 1 † 1 † 1	24 27 18 23 20	17 †16 †16 16 17	40 43 49 •41 45	1.91 1.05 2.26 1.06 1.05	-0.99 -1.40 -0.98 -1.16 -1.37	1.26 0.42 0.90 0.73 0.50	0 0 0 0	4 4 4	19 20 20 20 13 18	5 9 5 13 5	6 1 5 4 7	sw. sw. w. sw.	U. S. Weather Bureau. Mrs. S. E. Long, II. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
	extremes			51.1	1.0	85	† 1	13	15	53	1.22	-1.36	1.60	0	4	20	5	5	w.	
Section means and	extremes			52.1	-1.6	85	† 1	13	15	53	1.23	-1.09	3, 55	0	4	19	5	6	w.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. † Also on other dues. If Received too late to be included in means and summaries. \*\* Temperature data are from observed readings of the dry fault; means are computed from observed readings. If the other differences of these stations are as follows: Off daston Shoals, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Eutawyille; of Cesar's Head, Greenville; of Beaufort (near), Burton. The Precipitation is less than 0.01 inch of rain or melted snow.

Daily Precipitation for November, 1933.

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Wedgefield   Maximum   Minimum   Maximum   Maximum	82 54 82 57 82 55	57 80 60	68	74 56	52 67, 54	47 61 49	57 41	38 61 42 58 37 59 37 60	81 64	59 3? 58 88 55 87	68 29 63 27	76 83 71 48 72 41 78 40	78 44 78 47 74 46	84 64	60 33 61 38	51 24 54 25	56 25 56 26	64 84 66	41 63 84 68 87 64 46	72 37	70 88 76 43	58	67 46	30	38	68 85 69 45 68 89 67 41 69 45	58 80 60	70 88	78 34	41 75 45 76	
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Clemson College ) Maximum Minimum	551	75 52	60	75 61	63 45	47	66 45 68	58	64 82	59 29	67 25 67 20 62	71 42 71 46	71 43	30	80	58 21 50	20	80	29 70 38 65	75 85	35	69 44 66	64 66	3.1	84	31 63 28 66	31 60 83	40	76 29	76 80	
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Heath Springs Minimum	57 79	55 78	60	58	44 55	42 62	44 57 48 59	88 55	61	27 48	27	79 86	48 70 89 70 46 64	89 59	34 51 98 59	24 49	49 99 59	87	87 61 86	38	38	52	64	86	36 57 86 61	38 62	29 56 29 56	67 82 68 88 69	49	71 . 45 . 74 . 38 .	
Kershaw Maximum Minimum Maximum Maximum Minimum	81 58 79 57 79 58 77 55 78 56	56 74	78 56 77 60 78 62 77 60 78	51 69	46 56 48 55 44	64	60	34 52	29 62 20	27 48 90 59	27 61 90 55	27 71	46	81 64 90		23 48 22 46	51	96 87 68 88 85 85	63	71 88 69 42 71 85	37 70	66	43 63	85 86 69 87 57	87 69 88	38 61 36 66	29 55	28	72 49 79 89 74 85 77 29	79.	
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Trenton Maximum	74 57 85 57 80	74 56 85 57 68	80 61	67 47 80 56	44 61 46	46 76 46	44 70 42 68	56	81 60 80	65	60	69	69	32 65 82 68 27 61 84	38	47 27 54 27 59	51 24 55 27 52	61 38 66 37 67 30 65 27	44 72 38 68 28 63	70 89 70 44	74 38 74 45	76 46 65	43 80 48 61 34 66	56 86 85 37 57 81 69	63 38 70 36	40 70 88 59 29 65	88 61 28 59	64 38	73 40	44 . 71 . 42 .	::.
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Winthrop College   Maximum	79 56	56	60	52	48	42	59 47	84	28	28	28	7? 40	68 45	81	20	22	20	24	38	34	74 42	48	40	34	63 81	35	25	35	85	40 .	
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Reference letters (\*, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

% Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Releigh, 12-27-33-900

U. S. DEPARTMENT OF ACRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

No. 12

SOUTH CAROLINA SECTION.

33

G. C. MERCHANT.

Vol. XXXVI. Columbia, S. C., December, 1933.

9:12 a. m.

Fog (dense). - Anderson, 16; Bishopville, 14, 15, 16, 18, 26; Blackville, 3, 15, 16, 18; Blairs, 16; Calhoun Falls, 6; Camden, 15, 16, 17; Catawba, 8, 14, 15, 16, 17; Charlesten, 13 to 18, 26; Cheraw, 16; Cherokee (near), 8, 14, 15; Columbia, 3, 8, 14, 15, 16, 26; Crescent, 14, 16; Garnett, 16, 17, 18; Greenville, 3, 8, 30; Kershaw, 14, 15; Landium, 8, 14, 15; Laurens, 14, 15; Little Mountain, 14, 15; Majs Bluff, 1, 3, 5, 14, 16, 17; Newberry, 14, 15, 16; Pelzer, 3, 8, 14, 16, 31; Santuck, 8, 14, 15, 16, 17, 20; Spartanlung, 3, 8, 14, 15, 16, 17, 20, 31; Trenton, 8, 15, 16, 17, 19; Walballa, 12, assee, 16, 17, 18.

the 23d at 4:40 a.m., and 4:50 a.m., also on the 19th at

#### GENERAL SUMMARY.

The month was decidedly warm and dry, being the 4th warmest and the 2d driest December since the beginning of records in 1887

The continued marked deficiency of rainfall caused delayed germination of grain and growth of winter truck and 13, 14, 15, 16, 24; Winnshoro, 3, 8, 15, 16, 17, 26; Yemever, with a considerable number of light to moderate showers, especially in northwestern counties of the Section, winter crops and truck were in fairly good condition when the month closed. Some hog butchering cocurred during the 4-day cold period, from the 27th to 30th, inclusive.

#### TEMPERATURE.

The monthly mean for the Section, determined from rehighest temperature was 82° at Garnett and Summerville on the 18th and at Summerville on the 19th. The warm periods were from the 1st to the 8th, from the 11th to 26th, and on the 31st, ranging from 5° to 24° above normal compared with dilly mean temperatures. It was the warmest December of record, except 55.4° in 1889; 52.5° in 1923, and 53.5° in 1931. The lowest temperature was 17° at Caesars Head on the 27th and at Heath Springs on the 30th. The cold periods were on the 10th, and from the 27th to 30th, with daily mean temperatures ranging from 5° to 13° below normal.

# PRECIPITATION.

The average for the Section, 53 stations reporting, was 1.3) inch s, or 2.24 inches below normal. It was the driest December since 1887, except 0.53 inch in 1889. There were onsiderable numbers of light to moderate showers in upper and central portions of the State, heaviest about the 20th, but in the lower part of the Section showers were light and few. In a small area of extreme northwestern counties, the measurements ranged from 4 to over 6 inches, while in the remainder of the Section the totals ranged downward from 4 inches to nothing in sections of Berkeley and Darlington Counties. The greatest local monthly amount was 6.36 inches at Caesars Head; least local monthly amount, 0.00 at Pinopolis and Darlington. The greatest amount during any 24 hours was 2.00 inches at Caesars Head on the 19th. werage number of rainy days was 25% below normal. Light leet occurred at Landrum on the 28th, No snowfall occurred.

## RIVER CONDITIONS.

All strams of the Section were below flood stages throughout the month, due to generally light precipitation. Stages ingad below normal, except about normal at Pelzer on the Saluda River.

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 5, 6; Columbia, 23; Spartanourg. 2, 4, 6, 28. Solar: None.
Earthquakes.—Light tremors reported at Summerville on

#### MR. SULLIVAN RETIRES.

Richard Hughes Sullivan, Associate Meteorologist, and Section Director of the climatological service of the U.S. Weather Bureau for South Carolina, retired at the termination of December 31st in accordance with provisions of Federal law

Mr. Sullivan was assigned in charge of the Columbia staports of 41 stations, was 52.1°, or 5.3° above normal. The tion during March, 1913, and therefore, has been directing the work here for over 20 years. In addition to the regular duties involved, he completed a valuable and ready compilation of weather and crop data for the State from the earliest authentic records, and made notable digests and charts rela-

tive to the Santee River system. Before coming to South Carolina, Mr. Sullivan had fulfilled assignments in a number of cities, including Indiana-polis, Kansas City, Denver, Grand Junction, Colo., and Wichita, Kan. He entered the service in 1887, enlisting with the Signal Corps of the army, and was afterwards transferred to the Department of Agriculture, when that department took over the work of the Weather Rureau. An unusual record of 46 years and 3 months in the same field of Government service was achieved. Prior to entering the public service, he engaged in newspaper work, both printing and journalistic, which proved valuable aids to him in his Weather Bureau

Besides his official activities, Mr. Sullivan always has been a keen student of nature, especially of bird life. Last June South Carolina University honored him with the award of the Algernon Sidney Sullivan medallion for contributions to scientific work.

Mr. Sullivan will continue to reside in Columbia (R. F. D. No. 5), living in Edgewood.

#### PRESSURE, WIND, HUMIDITY AND SUNSHINE.

		,		,									
				pressui a-leve			Wir	าศั			elati mid		of
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage c
Asheville, N. C., Augusta, (ia., Charleston, S. C., Charlotte, N. C., Columbia, S. C., Savannah, Ga, Wilmington, N. C., Means and ex}	30, 18 30, 17 30, 17 30, 18 30, 18 30, 18 30, 18	30, 62 30, 71 30, 68 30, 56 30, 72	30 29 29 29 30 29	29, 70 29, 66 29, 68 29, 70 29, 67 29, 69	6 6 6 6 6	9. 0 5. 4 9. 5 11. 3 7. 1 10. 0 9. 0	28 21 27 30 25 32 26	nw. sw. e. nw. sw. e. nw.	26 3 29 27 3 29 9	81 85 77 81 86 79	55 54 62 64 57 59 55	61 81 63 64 77 72	63 66 64 60 70
tremes	30.18	30.72	29	29.66	6	8.8	32	e.	29	81	58	69	62

		-			
Climatological	Data	for	December,	1933.	

				C	limato	logic	al Da	ata f	Or D	ecem	ber,	1933.								
			record.	Te	emperat	ure, in	degre	es Fal	ır.		Precip	itation.	in incl	es.	Num	ber o	of da	ys.	ction	
stations.	Counties.	on, fee	Length of rere	Mean.	Departure from the normal.	Highest	Date.	Lowest.		Greatest units	Total.	Departme from the normal.	Grentest in 24 nours.	Total snowfall, unmeited.	With precipit on (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Eastern Portion.  Beautort (near)** Bishopville Black tile Charleston Conway Darlington Ethington Ethington Ethington Forence 1 Forence 2 Garnett Kingstree Marion Mars Bluff Myttle Beach Orangelong Ithinity Society Mill Sammerville Stinter 1.  Wedge siel Vonnssee  Division means and	Beaufort. Lee. Beaufort. Lee. Barnwell. Charleston Charleston Chasterfiel Horry Darlington Florence Orningchatg Florence .do Hampton Williamsburg Marion Florence Horry Berkeley Samter Darlington Dordessler Samter	21 224 296 48 144 25 175 106 63 136 136 136 68 254 68 92 264 54 97 192 75 169 249 249	53 50 63 52 45 39 48 48 52 19 16 52 9 10 2 19 87 20 43 43 44 43 44 45 45 46 46 46 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	54.1 57.4 58.0 51.6 55.8 *82.5 54.3 56.3 52.2 56.4 56.3 52.5 *51.7 54.9 *52.5 *51.7 54.9 *52.5	+9.4 +6.3 +6.9 +7.4 +6.1 +6.4 +4.9 +8.2 +7.5 +4.5 +6.6 +5.3 +6.6 +6.4 +8.1 +6.4	81 78 78	†17 18 18 †17 18 †17 18 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	22 255 35 20 23 *18 29 21 27 24 27 24 22 *20 24 18	30 10 10 10 10 10 10 10 10 10 10 10 10 10	45 48 25 50 49 *54  43 51  46  46 	0.35 0.28 0.40 1.07 0.22 0.17 0.22 0.17 T. 0.58 0.11 0.20 0.00 0.15 0.36 0.00 0.15 0.20 0.00 0.15 0.20	-3. 08 -3. 08 -3. 06 -3. 06 -3. 06 -3. 06 -3. 05 -3. 00 -2. 87 -2. 87 -2. 87 -2. 98 -2. 99 -2. 93 -3. 00 -2. 99 -2. 93 -3. 00 -2. 95 -2. 99 -2. 93 -3. 00 -2. 99 -2. 93 -3. 00 -2. 95 -2. 99 -2. 93 -3. 00 -2. 99 -2. 93 -3. 00 -2. 95 -3. 05	0.10 0.33 0.18 0.06 0.05 0.18	000000000000000000000000000000000000000	2 2 4 0 8 3 0 3 0 2 2 4 4 1 1 1 1 1	16 13 20 22 15	8 5 4 4	7 10 6 5 12	W. e. sw. w. se.	Mrs. R. L. Fripp. William M. Reid. Mrs. Martella S. Matthews I. S. Wenther Buresu. Roland D. Fowe. Perry C. Qunttlebanm. D. G. McCall. Win. B. Gillesple. Henry C. Savage. I. K. Gillesple. Henry C. Savage. I. K. Gillesple. Henry E. Savage. Dee Experiment Sta. Miner B. Robert. Mrs. Ellen Scott Dr. Charles B. Whilden. Rosa R. Davis. J. E. Bryan, Jr. Liss F. R. F. Bavenel. Marion P. Sweatman. E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Dept. W. Hamilyon Ramsey W. C. Hitsont.
Alken Anderson Anderson Bilairs Casars Head II Calhomi Falls. Caunden Chappells. Cheroke (near) Cleuson College Columbia  Creecent. Edgeheld Ellenton Gaston Shouls II Greenwood Heath Springs Kershaw Laurens Little Mountain Long Creek Salnda Santick Spartnuburg Santon Santick Spartnuburg	Anderson Fairfield Anheville Anheville Arbeville Arbeville Arbeville Arbeville Arbeville Arbeville Arbeville Arbeville Arbeville Arbeville Begrand Begrand George Hieldund Spartanburg Greenville Greenville Greenville Greenville Lamuster Kerslan Spartanburg Lamuster Arbeville Anhever Spartanburg Lamuster Arbeville Anderson Spartanburg Lamuster Arbeville Spartanburg Anderson Sahda Union Spartanburg Sahda Union	50 106 58 71 100 50 85 51 51	41 91 10 10 10 10 10 10 10 10 10 1	48.0 50.6 48.8 51.0 49.6 50.4 49.6 50.4 49.6 50.4 47.4 *50.0 1 51.8 47.4 *50.0 1 49.6 7 48.8	+8.2 +7.2 +7.2 +5.8 +7.0 +5.8 +4.3 +4.5 +6.2 +5.5 +6.2 +5.5 +6.1 +5.3 +4.5 +6.1 +6.2 +5.3 +4.3 +4.3 +4.3 +4.3 +4.3 +4.3 +4.3 +4	77 79 °76 °80 80 78	1	21 22 22	30 30 30 30 10 10 10 10 10 10 10 10 10 10 10 10 10	32 48 39 49 49 48 39 48 39 48 44 44 44 44 44 44 44 44 44	1. 90 0.70 0. 83 4.4 1. 66 1. 90 1. 22 1. 29 0. 66 1. 22 1. 29 0. 66 1. 22 1. 26 1.	-3.0° -1.77 -2.56 -2.56 -3.0° -2.2 -2.66 -1.56 -0.69 -2.29 -2.29 -2.29 -2.26 -2.66 -2.68 -2.68 -2.88 -3.88 -2.88	\$\frac{1}{0.484}\$\frac{1}{0.48	3350 0 54425 0 822580 445	000000000000000000000000000000000000000	155 15 15 15 15 15 15 15 15 15 15 15 15	22 5 9 9 9 14	2 14 55 18 10 22 11 27 11 10 20 20 20 20 20 20 20 20 20 20 20 20 20	1 w	A. A. Foreman, Southern Tubble Utilities, Walter R. Hall, M. M. Callionn, J. Marvin Bowers, John W. Hinnel, R. Thutwell Wilds, D.D.S. L. G. Roff. Miss Elberta Sease, Mrs. K. L. Burton, John H. Maxter, E. B. B. Liense, W. O. Jeter, V. S. Weather Bureau, Mrs. S. E. Long,
Wallmiln Winnsboro Winthrop College II Division menus ar	Edgetield Oconee Fairlield York	. 100 . 5- . 69	61 3 45 4 90 3	4 46. 0 51. 4 49. 50.	8 +3.2 1 +6.3 8 +6.6 2 +5.3	70 76 75 8	17 18 1	20 21 18	7 †2	0 4:	7 4.8 4 1.0 6 1.8 0 2.1	$ \begin{array}{c c}  & -1 & -2 & -2 & -2 & -2 & -2 & -1 & -1$	00   1.0 21   0.1 82   0.1 99   2.	57 14 55 00	0 0 0 0	8 8			14 sw 11 ne 9 n. 12 w	W. T. Clawson.

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, by represents two days missing, etc. 4 this on other dates. If Received too late to be included in means and summaries. Therefore readings of the dry indivisions are as tollows: of Gaston Blook Plancksburg; of Witthrop College, Rock Hill; of Ferguson, Entawyille; of Cesar's Head, Greenville; of Beaufort (near), Burton. Thereigntation is less than 0.01 the hold rain or melted snow.

Daily Precipitation for December, 1933.

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Stations.	Draimage- basms.	1	2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	21	25	26	27	28	29	30	81	Tota
Eastern Portion.	Const			_				1									1														L		
	Dlank				4:			're'							T						9.5						T						0.35
shopville	Black Edisto			7	01			(1)							1.7						. 05							T.					0.23
ackville	Const		. 02	. 02			T.	. 20					. 13	T							. 02						. 01						0.40
eraw illi	Peedee							. 20			T.			.18		T					. 46						. 11						1.07
11way	Waecumaw							. 03	. 03					, 10		T.					T.	T.					T.						0.28
rllugton III	Peedee																																0.00
inghum	Lynches				09									. 08							T.	1111											0.17
rguson III	Santee							. 09						T.	. 13					T.	T.									T.			0.22
trence 1	Peedee		11111											. 02	0.9																		0.17
rence 2	Peedeedo				T'.										T.																		T.
rnett	Savannah		. 06		. 04		. 08	. 11					.10	. 02		T				T.	. 02						. 15						0.58
ngstree	Black							. 08						. 05	. 03																		0.11
rion	Peedee																					1111											
ers Biuff	Peedee			T.	T.										T.						T.	T.											T.
rtle Beach	Coast																														ere elle		
angeburg	Edisto							T.					T.		.14	T.				T	. 02						. 04						0.20
topolls	Caoper								• • • •		• • • •									• • • • •													0.00
mini #h	Santee														. 10						05	1											0.15
ciety Hill fill	Peedee				0.8																. 33												0.36
unnerville	Aulting				0.4			T.						. 18	. 02					1								. 03					0.27
mter	Wateree												. 06																				0.06
dgeffeld	do												.05																				0.05
Western Portion,	Ashepao			T				. 15			• • • •			. 09							т.	T.						. 18			· · · · ·		0.42
(811	Killsto						10	12						13	. 14																		0.50
derson	Edisto Savannah			. 22			. 13	. 06					. 12							1.17	.58					. 05	. 67				. 05	. 05	3, 10
111'N []]	Broad				. 15																												0.97
ars Hend	Saluda			1 94			67						.02		. 19	.03				2.00						1. 11						1. 10	6, 36
thenn Fulls	Savannah			. 26			T.						. 12	. 18		T.				. 84	. 91					. 22	. 24				T.	1.	2.77 0.95
	Wateree				. 13			. 04	• • • • •		• • • •					. 13	.03	. 03			. 56							. 05					0.50
hwba III	Camwba				. 20			06													.70						.21	. 22					1.39
uppedls III	Saluda		1.11		. 22			. 03						. 10	. 03	. 03	. 01				. 66						. 13	. 09					1.30
erokee (near)	Brand			26			. 19	. 37							T	.11				.48	. 90						. 95					. 08	3, 34
lumbla ***	Savanuati			.70			.21							T.	. 11	. 06	T			. 50	1.00						1.55				. 08	.11	4.32
escent	Cangaree		. 01	.01	. 03		. 08	. 03					.04	T.			.01				. 23					. 10	. 110	• • • •	1,00		1		0,80
	Enoree	• • • •		.16			.09		• • • •		• • • • •		. 04		. 02	. 12	.01	• • • •		1. 61	• • • • •					1. 08	. 15				. 14	****	0.40
gelield	Savannah					. 1		. 06							.18						.28											. 15	0, 67
enton	Savannah							. 17							. 12						.23												0.52
ston Shorts III	Brond				.28			. 31								1.0	. 05				1.46						. 30	. 19				. 04	2.73
enville ***	Saluda				.56			. 26	. 01					. 00	. 04	.10	. 01			. 01	1.60	. 01					1. 35	.02				. 15	4. 15
ath Springs	da Wateree	• • • •			. 12			. 10						. 27	.14	. 06	.04				. 80	• • • •		• • •			. 26	. 04		• • • •			0.70
				. 12		,	. 08			• • • •			. 06	• • • • •		. 05		• • • • •		. 20													
rshaw III	Lynches				.14		. 05						.05								. 44							.17					0.85
ulrum	Broad			. 42			. 36	.41								. 21	.04			. 98	. 94					. !	. 98		T.			.0.	4.41
irens	Saluda		T	. 12			. 07	T.					, 12	T.	.03	T.				. 38	. 47					T.					T.	. 08	1.66
tle Mountain	Saluda						,08					. 05	. 10								. 40			-:-			1 00	• • • •				10	0.63
ng Creekwborry	Savanuah				. 60		. 12	-15	• • • •					. 02	T.	. 06				.2×	1. 15	• • • • •		• • • •		T.	. 18	• • • •				. 13	1.29
zer III	Sultidudo	•••		T.	19		. 06	14	. 03				. 03	06	Ť		т.										. 89	. 05				.09	2.96
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uda	do			T			.18						Т	. 05	T.					. 38						. 07							0.68
ituek	Broad	• • • •		T.	. 28		. 07						. 11		T	. 16				. 15	. 55	T.					.50			• • • • •		00	2,58
enton	Edisto			1	25		10	.29						. 03	16	. 04	. 01			T.	. 94					. 72	.21					. 09	1.24
liniin				67			15	05			••••	)	.06	03	T. .16 .03	. 09	. 01			1.25	11					т.	1. 67				.08	. 16	4.96
unsboro III	Broad				.22		. 10	. 12								. 10	. 03,	. 02			. 44						.08	.06					1.07
nthrop College								0.5							.07	. 05				. 22	. 55						.18						1.36

nthron College. Cutawin 10 14 65 07 65 07 65 22 55 18

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of baservation. Ill Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the 14-hour period, midnight to midnight. \*\* Precipitation included in the next following measurement. Separate dates of falls not recorded. T. Trace, or less than 0.01 inch.

								CO	MPA	RAT	IV	E D	AT.	A FOR	DEC	EMBE	R.										
		Temper	ature			Prec	ipitatio	on		Num	ber	of Da	ys			Tempera	ature			Prec	ipitati	on		Nnn	iber	of Da	ys
ear	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Mouthly	Average Snowfall	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Mouthly	Average Snowfall	Precip01 inch or more	Clear	Partly Cloudy	Cloudy
87	44. 9 42. 7 55. 4 45. 9 47. 1 47. 2 48. 1 46. 1 47. 6 45. 9 41. 6 45. 9 44. 0 45. 5 44. 0 45. 5 44. 0 45. 5 46. 2 50. 8	-1.9 -4.1 +8.6 -0.9 +3.1 +0.3 +0.4 +1.3 -0.7 -2.8 +0.8 -0.9 -2.2 -1.3 -2.8 0.0 -5.8 -1.3 -1.6 +1.2 -0.6 +3.8 -4.0	76 71 79 85 80 83 87 77 89 80 87 77 80 87 78 77 89 89 84	18 13 17 6 17 - 1 15 8 21 9 11 18 2 10 16 16 16 11 12 23 7	4. 65 3. 56 0. 53 2. 25 1. 91 2. 45 3. 66 2. 56 4 3. 55 2. 40 2. 84 5. 64 4. 26 4. 26 4. 26 5. 84 4. 26 5. 84 4. 26 5. 84 5. 85 5. 84 5. 85 5. 84 5. 85 5. 86 5. 8	$     \begin{array}{r}       -0.38 \\       +2.18 \\       -0.79 \\       -0.82     \end{array} $	8. 50 5. 12 1. 20 4. 15 3. 65 5. 81 4. 67 6. 55 6. 41 4. 11 6. 52 4. 05 8. 15 10. 23 6. 80 8. 15 10. 23 11. 71 8. 70 8. 70 9. 71 8. 70 9. 71 8. 70 9. 71 8. 70 9. 71 8. 70 9. 71 8.	3. 31 2. 12 0. 00 1. 01 0. 65 1. 60 1. 21 0. 43 1. 25 0. 55 1. 10 2. 98 1. 92 0. 57 1. 08 3. 1. 18 3. 11 0. 94	T. 0.9 0 7 T. 0.2 0.6 1 T. 0.5 T. 0.1	7	17 15- 16 17 11 12 15 14 12 10 14 12 14 12 14 14 11 11 12 11 11 11 11 11 11 11 11 11 11	7 8 7 5 6 5 4 8	7 8 8 8 8 12 12 8 10 13 11 6 12 15 9 10 9 7	1912 1913 1914 1915 1916 1917 1918 1921 1922 1923 1925 1926 1925 1926 1927 1928 1927 1928 1929 1930 1931 1931 1932 1933	48. 8 47. 8 44. 8 44. 7 50. 8 46. 5 50. 3 51. 0 52. 5 47. 6 44. 4 48. 7 46. 1 46. 1 46. 1 46. 2 46. 1 46. 5 49. 6 53. 5 49. 6 53. 5 49. 6 53. 5 49. 6	+2.0 +1.0 -2.9 -2.6 -0.1 -9.1 +4.0 -0.3 -0.7 +3.5 +4.2 +5.7 +0.8 -0.7 -0.7 -0.8 -0.7 +1.6 -0.7 -0.8 -0.7 +2.8 +5.3	79 77 80 79 82 82 87 75 86 79 86 77 82 83 78 81 74 85 81 85	18 16 11 17 11 16 17 15 18 20 22 23 12 11 13 12 15 5 10 10 17	2. 88 4. 25 4. 80 3. 27 2. 43 1. 47 5. 35 8. 45 4. 01 1. 54 4. 90 4. 12 5. 54 8. 26 8. 59 6. 93 1. 87 4. 14 6. 33 1. 39	-0.75 +0.62 +1.17 -0.36 -1.20 -2.16 +1.72 -0.18 +0.39 +1.27 +0.49 +1.91 -0.37 -0.04 +3.30 -1.76 +0.51 +0.51 +0.51 +0.21 +3.51	6. 01 6. 80 11. 00 10. 08 4. 76 3. 35 13. 44 8. 93 7. 97 3. 37 9. 81 6. 60 9. 58 8. 00 11. 38 5. 14 6. 24 5. 93 16. 41 20. 00 6. 36	0.90 1.79 1.51 1.41 1.84 0.34 1.16 0.10 2.26 0.31 1.56 2.93 1.37 0.69 1.19 0.61 2.39 2.06 1.65 0.68	0 T. 1. 7. 0. 3 3. 8 T T. 0 T. 0 T. 0. 6 T. 0. 6 3. 2 T. 0. 7	8 9 13 7 7 9 6 8 8 5 5 13 9 8 8 8 8 9 6 7 7 11 12 6	12 10 6 18 16 15 12 16 15 16 10 11 13 15 14 15 15 18 14 15 15 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	5765666657585454656775	14 14 19 8 9 10 11 8 16 12 12 12 12 12 12 11 18 16 11 11 13 16 16 11 11
0	42.0 49.8	-4.8 +3.0	76 85	12	2.36	-1.27 + 1.31	4.96 8.59	0.66 1.77	T.	5 9	18	7 7	6	Period.	46.8		89	- 6	3.63	•	20.00	0.00	0.4	8	14	6	11

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ort(near)) Maximum Minimum	74	70	74	72	72	70	61	67	58	52	71	68	48	59	52	72 7	8 7	8	0 6	7 6	55 7	ġ	72	73	70	67	61	49	49	45	6	6
pville   Maximum   Minimum	46 80	49 68 51	50 77	72 54 76	72 40 78 40	70 48 72	43 60	30 67	36 62	26 58 25 54	43 73	40 65 47 58	40 59	47 75	75	51 5 76 8	8 7 52 5 50 8	8 7 6 5 1 7 5 5 8 6 8 9 5	52 5 70 7	0 6 5 3 2 6	13 3 57 7 39 4	8	16 74	15 76	51 79 50	73 48	65 32	53 32	49 32 54 34 34	48 7	2	6 4
	47 74 52	66	52 75	54 73	68	70 56	61	61	40 61 43	54 35	43 71 53	58 48	57 45	66 57	61 56	75 7 55 6	76 7 30 8	8 6	56 7 58 5	2 6	6 6	5	72 50	72 53	74 54	70 56	57 88	59 38	52 42	49 6 35 4	4	6
w// Maximum	78 44	58 66 47	72 50	70 54	72 38	72 40	57	67 26	55 35	54 20	70 38	46 39	52 38	55 42	55 46	74 7	18 7	18 5	56 6	8 6	35 7 35 3	0 7 8 0 8 5 2 3 1 1 3	46 74 41 72 50 78 32 75 35	73 4:2	70 49	48	42 28 65	51 32 60	14 28	47 6 20 3	8	4
my   Maximum	78 44 76 42 78 42	47 70 47 68 45	50 77 52 75 60 72 50 78 58 75 47	54 73 57 70 54 74 57 74 55	68 50 72 38 73 40 74 36	49 70 56 72 40 76 42 75 43	46 61 48 57 41 67 45 59 43	33 61 40 67 26 66 28 68 25	43 55 35 56 35 62 31	54 20 53 23 55 18	43 73 43 71 53 70 38 72 40 72 25	48 46 39 68 41 50	48 40 59 42 57 45 52 38 54 41 56 40	47 75 55 66 57 55 42 64 52 57 41	49 75 68 61 56 55 46 69 48 62 49	58 5 75 7 55 6 74 7 47 5 49 6 49 8 48 8	55 5 50 5 50 5 52 5 53 5 53 5 53 5 53 5 53 5 53 5 53 5 53 5 53 5 53 5 53 5 53 5 54 5 55 5 56 5 57 5 58 5	51 50 55	70 652 557 557 557 558 556 654 5572 5772 5772 550 556 4 772 550 556 556 556 556 556 556 556 556 556	58 6 51 5 56 56 71 52	i9		35 75	45 76 47 72 53 78 42 75 40 71 85	70 51 79 50 74 54 70 49 75 46 75 42	67 53 73 48 70 56 60 48 74 51 70 49	61 31 65 32 57 88 42 28 65 34 54 27	49 29 53 32 59 38 51 32 60 34 50 27	42 44 28 52 84 47 32	45 6 22 4 48 7 31 4 49 6 35 4 47 6 52 2 24 5 50 2 21 2	0 2 3 3 9 4 4 54 8 8 11 10 11 12 2	• (
ngton // ) Maximum Minimum						- 1			- 1				-1		- 1		12					30 ···		- 10	- 2							• 5
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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

M Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W B O, Raleigh, 1-26-34-900

U. S. DEPARTMENT OF ACRICULTURE, WEATHER BUREAU. CHARLES F. MARVIN, Chief.

# DATA. CLIMATOLOGICAL

SOUTH CAROLINA SECTIONS 1034

G. C. MERCHANT.

OL. XXXVI

COLUMBIA, S. C., YEAR, 1933

#### GENERAL SUMMARY.

Temperatures averaged much above normal and precipi-

ation was remarkably light during the year.

The winter was mild, on the whole, but there were some ard freezes from February 8th to 13th during the first week n March and it was unusually cold for the season a few days he latter part of April. However, the winter was not nearly o warm as the previous one when temperatures averaged emperatures averaged near normal, followed by a warm Sepember, a rather cold November and warm December. There vas a deficiency in precipitation during every month of the ear, except February, with marked minus departures during Jarch, June, October, November and December, 19 persons vere killed by a tornado in May, and 100 were injured. 13 persons were killed by lightning from April to September, inlusive. The total damage from windstorms and tornadors vas estimated at \$658.800, of which, over half occurred durng the disastrous tornado in portions of Anderson, Greenville and Laurens Counties on May 5th.

On account of deficient precipitation, considerable replantings were necessary in the spring, especially for cotton n many sections. The cold period in February caused some lamage to truck in coastal areas, but fruits escaped material lamage during the March and April cold periods. The woods vere generally green by April 9. Most crops were retarded u germination and growth by prolonged drought, but fair to good progress was made in the major part of the State from perature this month of 51.4°, or 5.5° above normal, but it he 1st of May. Winter cereal harvests extended from May to June 15. The first cotton bloom was reported near Bamperg on May 31, 2 weeks earlier than normal and the earliest ploom of record for the past 20 years; the first open boll was observed near Parler, Orangeluig County, on July 20, or 7 lays earlier than normal; the first bale was ginned in Orangeourg County August 1, or 9 days earlier than the normal the 8th and 13th, causing damage to tender truck in coastal The woods were generally bare by November 18. late.

Freezing temperatures in the spring were general as late everage latest spring killing frost date for 1933 was March 16. or 6 days earlier than normal; the average earliest autumnal month closed. silling frost date was November 7, or 3 days earlier than normil. The growing season was 236 days, or 3 days longer than iormal.

uly 21; lowest annual temperature, zero at Caesars Head on \$6,000 loss.

Seasonal temperatures with departures from the 47-year normals: Winter (1932-33), 49.7°, +3.0°; spring, 63.4°, +0.8°; summer, 78.9°, +0.2°; autumn, 64.6°, +0.7°.

The average annual precipitation was only 35.95 inches,

No. 13 a deficiency of 11.79 inches. For the state, as a whole, it was the second driest year since the beginning of records, being lowered by that of 1925 with an average of 35.82 inches. The greatest annual amount at any station during the year was 52.85 inches at Charleston; least annual amount, 22.56 inches at Darlington. The greatest monthly amount at any station was 13.04 inches at Charlesson in September; least monthly amount, nothing at Darlington and Pinopolis in December. The average number of rainy days was 83; greatest a umber at any station was 111 at Greenville; least number. 10 at Aiken and Edgefield. Average annual snowfall, 0.4 inch. A light to ighest since the winter of 1889-1890. Spring and summer moderate glaze and sleet storm, with some snow, occurred in central and northern counties on January 13; greatest depth 5.0 inches in Newberry County. A light frozen rain and sleet storm, with snow flurries, also occurred on February 10 and 11 over the northern half of the State.

During the growing season, March to September, inclnsive, the total precipitation was 24.12 inches, or 6.81 inches below normal, as compared with -15.24 incl.es in 1925, determined from the 1933 normal.

Seasonal precipitation, with departures from the 47-year Winter (1932-33), 13.83 inches, +2.31 inches; spring, 7.46 inches, -3.10 inches; summer, 12.00 inches, -3.67 inches; autumn, 7.00 inches, -2.45 inches.

Only minor floods occurred in the rivers of the Section, with nominal damage, during the year on account of the generally small amount of precipitation.

## WEATHER BY MONTHS.

was not so warm as the previous January which was the warmest of record. Precipitation averaged considerably 1elow normal, but was fairly well distributed. One person was killed on the 25th by a falling tree from a windstorm.

February.—Temperature and precipitation averaged slightly above normal. There were some hard freezes between

sections. March. - Rainfall averaged about half the normal and is March 11, at up-state stations as late as the 27th, and at a temperatures were slightly lower than usual. Peaches, years ew places in extreme northwestern counties or April 17. The and plums were in full bloom by the 21st, and suffered no sereezes in fall began in the northern portion of the Section on rious set-back from frost. A thunderstorm at Spartanlung October 26 and were general from Neventer 8 and 9. The on the 17th caused about \$6,000 damage and two persons Corn planting became rather extensive as the were injured.

April. - The month was rather dry and cool, but showers were timely, except some replanting of cotton was necessary toward the close, due to deficient soil moisture: Winter co-The mean annual temperature was 64.4°, or 1.4° above reals headed on short straw. Hailstorms caused about \$5,000 normal. The warmest month was August with a mean of damage near Gaffney and Bishopville on the 19th; about 9.3°; the coldest month was February, with a mean of 48.0°. \$10,000 damage to standing property by wind squalls east of The highest annual mean at any station was 68.0° at Charleson; lowest annual mean, 60.6° at Walhalla. The highest on the 16th, \$1,500; one person was killed by lightning and nnnal temperature was 106° at Santuck and Scoicty Hill on a residence was struck by lightning and burred with alcut

(CONTINUED ON PAGE 52.)

# Climatological Data for the Year 1933.

	Temperature (degrees Fahrenhelt).  Precipitation (inches).																				
			-	Fempe	ratur	e (degrees	Fahr	enhelt)				Precip	itation	(inch	ies).				Sky.		Jo
Stations.	Countles.	Elevation, feet.	Length of record,	Annual mean.	Highest.	Date.	Lowest.	Date		Length of record,	Total for the year.	Greatest monthly.	Month.	Least monthly	Month.	Total snowfall.	Number rainy days.	Number clear	ES ES	Number cloudy days.	Prevailing direction wind.
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Summerville	Darlington Dorchester	192 75 169	43 36 5	64. 6 66. 4	106 100 99	June 21 June 5† Aug. 10		Feb. Feb.	9† 6† 5†	57 23 43 36	30. 92 32. 87 30. 12 42. 67	5. 6 6. 09 5. 90	Feb.	0. 36	Dec. Dec.	. 0	79 76 77 85	212	80	78	s. 
Wedgefield. Yemassee Division means and	. Hampton	249 24	45	65. 6 66. 8 66. 0	102 103 106	June 21 June 20 June 21	18 19 20 17	Feb. Feb.	9	5 12 45	27.11 29.27 38.60 35.87	6.92	July	0, 05 0, 42	Dec. Dec. Dec.	0	84 65 80 81	264 218 204	60 33 80	114 41 114 81	e. w. se.
WESTERN PORTION. Aiken Anderson Blairs	. Aiken . Anderson . Fairfield	527 764 293		67. 1 63. 3	102 108	June 26† June 20	15 11	Feb.	9 9	72 41	21.65 37.02	4.65 5.16	Oet. July	0.50	Dec. Oct.	0 0	59 77	234 280	37 24	94	ile.
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Chappells Chcrokee (near) Clemson College Columbia	Spartanburg Oconee Richland	402 758 850 351	39 6	61.2 02.7 65.9	102	June 20† June 20 June 20	10 10 10		9	28 29 6 42 47	36.85 35.79 35.29 42.02 27.11	5. 26 6. 79 7. 03 9. 72 5. 82	Sept. Aug. July	0.83 0.60 1.10 0.40	Nov. Oct. Oct.	0.5 T 0	102 73 86	261 183	56 55	48	 W,
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Greenville Greenwood Heath Springs Kershaw	Greenville Greenwood Laneaster Kershaw	989 671 568 500	50 6 32 6	32. 5 33. 6 32. 4 4. 3	102	June 7 June 19† June 20 June 20	11 14 13 19	Feb. Feb. Feb. Dec. 3	9 9 9	50 50 32	36, 22 30, 63 29, 02 30, 19	5. 92 5. 58 6. 48 6. 47	Ang. Feb. Aug.	0.64 0.52 0.70 0.28	Oct. Nov. Dec. Nov.	T. 0 4.0 2.5	92 111 89 72 73	156 173 171	102 0 62	192 1 132 1	5 W . W . 3 W .
Landrum Laurens Little Mountain Long Creck.	Spartanburg Laurens Newberry Oconee	1063 589 711 1000	16 6	3.7	105	June 20 June 20 June 21	9 13 11 8	Feb. Feb. Feb. Feb.	9	16 42	41. 68 39. 16 37. 86	5. 19 6. 09 8. 23	Apr. Sept. Aug.	1. 44 0. 63 0. 60	Oct. Oct. Nov.	T. T. T.	76 87 73	204 231 225	18 109 95 61	52 r	w. 1w. *.
Newberry Pelzer Saluda Santuck	Newberry Anderson Saluda Union	502 850 536 512	32 6	3.3	iėi j	une 22 une 20† une 21	16	Feb. 8 Feb. 8 Feb. 8	iŧ	30 30 32	38, 17 37, 69 36, 62 39, 13	7. 24 5. 44 5. 75 10, 14	Sept. July July Aug.	0, 62 1, 42 0, 68 0, 95	Nov. Oct. Dee. June	9. 2 0 0 0 0. 1	97 94 74 91	173	109	s	▼. 
Spartanburg Trenton Walhalla Wlnnsboro Winthrop College ‡‡	Spartanburg Edgefield Oconee Fairfield York	545	39 32 60 40 64	0.6	03 J 01 J	une 19† une 21 une 19† une 6† une 20	14 8	Feb. 9 Feb. 9 Feb. 9 Feb. 9	9 4	56 11 34	88. 40 83. 19 48. 20 37. 61	5. 67 7. 39 5. 87 9. 06	July July Aug. Aug.	1. 91 1. 95 2. 26 0. 92	Nov. Nov. Nov. Apr.	T, 0 T	101 64 110 92	185 210 118	1	126 s	v. w. w.
Division means and extension means are extension means and extension means and extension means are extension means and extension means are extension means and extension means are extension means and extension means are extension means and extension means are extension means and extension means are extension means and extension means are extension means and extension means are extension means and extension means are extension means and extension means are extension means and extension means are extensi			63	. 0 1	06 J	une 21 une 21	0	Feb. 9	ţ	8	32. 59 36. 28 35. 95		Aug.	0, 23	Nov. Dec.	1. 2 0. 3 0. 4	83	159 181 191	88 85	59 n 96 w 89 s	7,

†On other dates also.

\*\* Temperature data are from observed readings of the dry bulb; means are computed from observed readings.

†† Postoffice addresses of these stations are as follows: Of Gaston Shoals, Blacksburg; of Winthrop College, Rock Hill.

-													CA												5
	1.	nuary.	Mo	oruary	and A	nnua	Prec	ipitat	lon fo	r the	Year	r 193	3, wi	th D	epart	ures	from	the I	Vorm	al.					
	ch.	April		May.		June.	1	July.		gust.		ember.	1	-	1	mber.	Decer	mber.	Ann	nual.					
Stations.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
Plorence 2 Garnett Kingstree Marion Mars Bluff Myrtle Beach Orangeburg Plnopolis Rimini	2. 32 2. 33 1. 07 2. 38 2. 70 2. 63 3. 34 -3. 97 2. 63 1. 97 2. 49 2. 74 2. 27 4. 22 2. 27 2. 85 2. 70	-0.65 +0.83 -0.81 -1.27 -1.88 -1.15 -1.04 +0.37 +0.49 -0.56 -1.34 -0.48 -0.88 -0.29	5.44 5.93 5.41 6.62 2.22 4.66 7.20 4.32 4.70 4.46 6.31 4.50 4.66 5.56 6.56 6.56 6.56 6.56 6.56 6.99 6.50 6.50 6.50 6.50 6.50 6.50 6.50 6.50	+1, 29 +2, 95 +1, 33 +2, 49 -1, 55 +0, 02 +3, 39 +0, 51 +2, 55 	1. 47	2. 03 1. 2. 03 2	95 - 1. 29 - 0. 37 - 1. 08 + 0. 93 - 2. 20 - 1. 69 - 0. 550 - 1. 567 - 0. 10 - 1. 78. 33 - 1. 20 - 1. 69 - 0. 50 - 1. 69 - 0. 50 - 1. 69 - 0. 69 - 0. 50 - 1. 69 - 0. 69 - 0. 50 - 1. 69 - 0. 69 - 0. 50 - 1. 69 - 0. 69 - 0. 50 - 1. 69 - 0. 60 - 0. 60 -	42 2.0 3.4 3.4 3.5 3.4 1.77 1.5.1 1.77 1.5.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	3 -1.0 1 +0.2 6 -1.2 9 +1.6 2 +0.0 5 +0.8 5 -0.0 5 +0.8 6 -2.4 7 +0.7 9 +0.7 9 +0.7 9 +0.7 9 +0.7 9 +0.7 9 +0.7 9 +1.6 1 -1.2	9 3, 7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1 1	4 5.77, 474 7, 8, 12 14 4.52 2 12.52 7 3.20 8 0 0.45 1 5.98 6.70 6.80 6.80 6.80 6.80 6.80 6.80 6.80 6.8	-0. 44 -3. 76 +1. 23 -1. 50 +5. 91 -2. 81 -0. 21 -6. 43 +0. 14 +0. 86 -0. 65 -3. 29 -3. 85 -3. 28 -1. 80 -2. 08 -3. 08	8. 86 1. 45 5. 58 5. 58 6. 38 3. 21 1. 92 3. 80 1. 92 2. 43 6. 57 2. 43 6. 35 75 2. 43 80 2. 43 80 80 80 80 80 80 80 80 80 80 80 80 80	+2,60 +0,24 +2,16 -0,35 -0,23 -1,77 +0,62 -1,91 -1,39 -4,17 -2,81 +0,45 -1,26 -2,83 -2,29 -2,29 -2,29 -2,20	6, 61 3, 14 4, 22 94 7, 16 2, 15 5, 41 2, 22 2, 36 2, 73 6, 32 1, 36 6, 32 1, 36 6, 35 1, 36 6, 35 1, 36	+1,43 -0.07 +8.51 -0.81 +2.09 +1.19 -2.29 -2.20 -3.56 +1.78 -0.73 3.33 -1.76 -1.54 -2.00 -1.08 -1.	3. 30 2. 54 1. 20 2. 81 0. 93 0. 91 1. 63 1. 63 2. 63 1. 65 0. 21 1. 58 0. 57 0. 63 1. 58 1.	+0. 12 -1.51 -0. 46 -2. 26 -2. 26 -2. 20 -0. 29 -1. 99 -0. 51 -1. 98 -1. 1. 54 -1. 33 -1. 70 -1. 93 -1. 40 -1. 23 -1. 23 -1. 23 -1. 24 -1. 25 -1.	1. 06 0. 70 1. 24 1. 09 0. 76 0. 79 0. 27 2. 06 0. 73 1. 13 - 2 0. 43 1. 75 1. 10 0. 56 - 4. 66 1. 60 4. 66 1. 60 1. 60 1. 60	-1.05 -0.79 +0.11 -1.10 -1.50 -1.32 -1.83 -1.08 -1.48 -1.08 -1.27 -1.66 -0.68 -1.60 -1.69 -1.69 -1.69 -1.69	*0.56   0.35   0.23   0.40   1.07   0.26   0.17   -7   0.58   -7   0.58   -7   0.58   -7   0.68   -7   0.7   -7   0.7   -7   0.8   -7   0.8   -7   0.8   -7   0.9   -7   -7   0.9   -7   -7   -7   -7   -7   -7   -7   -	-2.20 -3.68 -2.32 -2.21 -3.66 -2.95 -3.08	46. 37 32. 45 52. 85 34. 85 47. 71 22. 66 38. 65 38. 65 38. 65 37. 27 6. 75 6. 87 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 7. 27 8. 65	- 0. 2 - 14. 11 + 7. 6: - 12. 44 - 12. 44 - 14. 18 - 11. 14 - 14. 39 - 14. 16. 36 - 14. 7. 92 - 17. 18. 31 - 17. 92 - 17. 18. 31 - 17. 92 - 17. 18. 31 - 17. 92 - 17. 18. 31 - 17. 92 - 17. 18. 31 - 17. 92 - 17. 18. 31 - 17. 92 - 17. 18. 31 - 17. 92 - 17. 18. 31 - 17. 92 - 17. 17. 18. 31 - 17. 92 - 17. 18. 31 - 17. 18. 31 - 17. 92 - 17. 18. 31 - 17. 18. 31 - 17. 18. 31 - 31 - 31 - 31 - 31 - 31 - 31 - 31
2.4	74   40   -1   17   17   17   17   17   17   17	3.0 3.3 3.3 3.3 3.3 3.3 3.5 3.6 3.5 3.5 3.6 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	431+1 93 111-0 97 111-0 98 111-0 80 +0 111 111-0 111-0		07 - 1. 6 39 - 1. 8 77 - 2. 3 10	8 1.167 3.22 1 1.56 4 3.3 2.43 3.3 2.43 3.3 2.43 3.3 2.43 3.3 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	-1.92 -0.23 -1.35 -1.36 -1.51 -1.68 -1.51 -1.69 -1.50 -1.50 -1.50 -1.19 -2.23 -1.51 -1.51 -1.50	1, 03 2, 03 2, 13 2, 14 2, 54 3, 23 3, 23 4, 68 4, 168 4,	-2.52 -1.60 -0.83 -1.81 -0.75 -0.82 -1.81 -0.75 -0.82 -1.10 -0.82 -1.10 -0.82 -1.10 -0.82 -1.10 -0.82 -1.10 -0.83 -1.10 -0.83 -1.10 -0.83 -1.10	1,05 - 4,04 - 1,83 - 4,24 . 1,83 - 4,24 . 1,83 - 4,24 . 1,64 . 1,	-3. 62 -0. 29 -0. 29 -1. 61 -1. 61 -1. 41 -1. 51	2. 01 5. 16 4. 96 3. 71 4. 34 4. 11 1. 02 1. 14 11 1. 02 1. 14 12 1. 07 2. 85 1 12 2. 04 0. 05 6 2. 56 6 2. 74 1.	3. 06 1 1 0. 03 4 6 1 1 1 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 97 — 644 — 614 — 614 — 615 — 614 — 615 —	3. 14 3 0. 48 3 3 1.04 3 2. 28 4 4.2 24 3 3 2. 27 1 1.2 1.2 1.2 1.2 1.2 1.4 1.1 1.2 1.4 1.1 1.2 1.4 1.1 1.2 1.4 1.1 1.2 1.4 1.1 1.2 1.4 1.1 1.4 1.1 1.1 1.2 1.4 1.1 1.4 1.4	1.58 —	0. 02 4 4 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1	10 65 +11 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -	.96 0 0 1	1. \$2 23	11.72 0 1.46 3 1.53 0 0 1.62 1.15 1.165 1 1.165 1 1.165 1 1.165 1 1.165 1 1.165 1 1.165 1 1.165 1 1.165 1 1.165 1 1.165 1 1.17 0 0 0 1.162 1 1.165 1 1	3.5 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	3. 14 24 1. 65 87 3. 04 81 52 1. 73 32 2. 55 84 2. 56 30 6. 04 35		21. 10 12. 21 13. 20 15. 65 11. 49 9. 27 1. 40 1. 5. 96 1. 5. 98 1. 5. 98 1. 13 1. 5. 98 1. 13 1. 5. 98 1. 13 1. 69 1. 60 1. 6
etion means and departures. 2.64  The departures from	-0.92	4.86	+0.58	1.96	-1.94	2.31 -	0.73 3.		43 2.7	9 -1.		5 -0.6	30 5.02 55 4.71	+0.0			1 2.03	-0.93 -1.32	1. 22	-1.3	6 2.15 9 1.39	5 1 0	0 20 00		
	- 4440	Philip	· pre	Ditat	on are	omnu	too bot	w C							_					i	1	4	1 1		

The departures from the normal precipitation are computed only for such stations as have ten or more years of record.

Monthly and Annual Mean Temperatures for the Year 1933, with Departures from the Normal.

Stations.    January   February   March   April   May   June   Juny   August   Spiember   October   Newwheel December   Annual   June		IY.	Ionth	ly ar	nd An	nual	Mean	1 Tel	npere		3 101	-			,										han	Ann	201	
Exerting Positions  Benuffort (user)  Sol. 2 + 1, 4 Sol. 3 + 0.9 Sol. 2 - 0.8 Sol. 4 - 0.0 77.5 + 1.8 70.9 + 0.7 70.8 70.8 70.8 70.8 70.8 70.8 70.8		Janu	ary.	Febr	uary.	Mar	ch.	Apr	il.	Ma	у.	Jun	e.	Ju	ly.	Aug	ust.	Septen	nber	Octob	er.   1	Novem	ber	ecen	iber.	Ann		
Bishoville	Stations.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature	Departure.	Temperature.	Departure.	Temperature.	Departure.	
Section means and 51.4 +5.5 48.0 +0.4 54.3 -0.3 61.1 -1.2 74.9 +4.0 78.5 +1.1 78.5 -1.0	Bentfort (near) Bishoville. Bi	53. 2 54. 5 55. 8 55. 8 56. 8 56. 8 52. 4 52. 4 52. 3 54. 8 55. 8 55. 8 55. 8 55. 8 56. 8 57. 8 58	+1.7. +6.9 +5.9 +4.5. +4.5. +4.5. +5	453. 8. 151. 7. 158. 8. 2 52. 8. 150. 6. 150. 150. 150. 150. 150. 150. 150. 150	+0.9 +0.9 +0.9 +0.9 +0.9 +0.9 +0.9 +0.9	58. 2 58. 2 58. 2 58. 2 58. 2 58. 6 58. 6 55. 0 55. 6 56. 8 58. 4 56. 4 56. 4 56. 4 56. 5 56. 5 57. 6 58. 4 58. 4 58. 4 58. 4 58. 4 58. 4 58. 4 58. 4 58. 4 58. 4 58. 6 58. 6 58. 6 58. 4 58. 4 58. 4 58. 4 58. 4 58. 4 58. 5 58. 4 58. 6 58. 4 58. 6 58	-0.3 -0.3 -0.4 -0.8 -0.4 -0.8 -0.4 -0.1 -0.2 -0.3 -0.4 -1.1 -1.6 -1.2	64. 4 64. 2 64. 2 64. 2 64. 2 64. 2 66. 1 61. 8 61. 8 61. 63. 0 63. 0 64. 2 63. 0 64. 2 63. 0 64. 2 63. 0 64. 2 63. 0 64. 2 63. 0 63. 0 64. 2 65. 3 66. 0 63. 0 64. 0 65. 5 66. 0	-0.9 -0.3 -0.0 -0.4 -0.5 +0.5 -0.4 -0.1 -1.1 -1.8 +0.9 -0.5 -0.4 -0.1 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5	77. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	+4.3 +5.1 +5.6 +5.8 +6.6 +5.8 +6.4 +5.5 +6.4 +5.5 +5.6 +5.5 +5.6 +5.5 +5.5 +5.5 +5.5	79. 3 78. 3 78. 6 78. 7 78. 1 78. 8 79. 7 78. 1 78. 8 78. 78. 78. 78. 78. 78. 78. 78. 78. 78.	+0.3 +2.2 +1.0.6 +1.3 -0.5 -0.0 +2.4 +1.6 +1.3 -0.5 -0.5 +2.4 +2.5 +1.6 +2.5 +1.6 +1.3 +1.6 +1.3 +1.6 +1.3 +1.6 +1.3 +1.6 +1.3 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6	79. 4 77. 78. 80. 8. 80. 83. 78. 5. 78. 48. 80. 83. 78. 5. 78. 48. 80. 80. 80. 80. 80. 80. 80. 80. 80. 8	-2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	80. 66 78. 88 80. 67 89. 80. 68 80. 6	-0.4	181, 4 80, 2 77, 6 80, 2 77, 9 179, 9	+4.1 +4.3 +4.6 +4.2 +2.8 +4.2 +2.8 +4.2 +2.1 +4.3 +4.2 +2.8 +4.2 +2.1 +4.2 +2.1 +4.2 +2.1 +4.2 +4.3 +4.2 +2.1 +4.4 +4.4 +4.4 +4.4 +4.4 +4.4 +4.4 +4	*68. 0 61. 1 67. 9 66. 68. 6 68. 4 *65. 3 61. 8 66. 2 66. 8 66. 2 66. 8 66. 2 66. 8 66. 2 66. 8 66. 2 66. 8 66. 2	+0.2 +0.8 +1.2 +0.8 +1.6 +0.6 +0.6 +0.6 +0.6 +0.6 +0.6 +0.6 +0	456. 4 6 56. 5 6 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	-2.55	55.1.1 557.4 68.0 68.1 68.1 68.1 68.1 68.1 68.1 68.1 68.1	+6.1 +6.3 +6.3 +6.3 +6.3 +6.3 +6.3 +6.3 +6.3	67. 67. 68. 68. 66. 66. 66. 66. 66. 66. 66. 66	6 + + + + + 1	3.3 3.3 2.6 6 1.5 2.4 1.9 3.4 1.5 5.8 1.1 1.9 1.0 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
	Division means an departures. Section means an departures.	d 51	.4 +	5. 5 48	1.0 +0	. 4 54.	3 -0	. 3 61	.1 -1	.2 74	9 +4	. 0 78	.5 +	1. 1	8. 8	1.0	3.0	0.0]	-	-	+ 0.	0.3 51	2.1	1.6	52.1 +	-5.8	64. 4	+1.

The departures from the normal temperature are computed only for such stations as have ten or more years of record.

Reference letters (\*, \*, \*), appearing in the table indicate number of days missing: For example, \* represents two days missing, etc.

#### WEATHER BY MONTHS .- Continued . (CONTINUED FROM PAGE 49.)

May.—Temperatures were unusually high and rainfall was somewhat deficient and badly distributed. Generally good cotton stands were developed after considerable replanting in wrecked property to the value of \$350,000, mostly it and person was killed and 6 were injured by lightning. near Belton where the loss amounted to \$250,000 and 11 deaths. 19 persons, altogether, were killed and 100 injured in the path of the tornado from Anderson through Belton. Two persons were killed by lightning, and hailstoins and wind squalls caused about \$115,000 additional damage over the State, with injuries to 22 persons.

progress, but other crops suffered considerably from drought; occurred in Charleston on the 12th. seeding stubble land to late corn and forage was delayed.

Three persons were killed by lightning and one by timbers blown down. Windstorm damage was about \$4,000.

July .- Rainfall was generally insufficient and distribution poor. However, some eastern portions of the Section had heavy rains. Cotton bloomed and fruited freely, while corn, truck, sweet potatoes, etc., improved as the month progressed. The mean temperature was 78 8°, or 1° below normal. One

August .- Poor distribution in precipitation continued with average below normal. Temperature ranged near the normal. Cotton picking and ginning were active. Corn, truck and other crops responded materially to improved moisture conditions after the middle of the month. Three persons were killed by lighining and one was injured; one was drewned by a wind squall. Approximately \$158,000 worth of property June. - Dry, warm weather continued. Cetten neade good was destroyed by fire caused from lightning, most of which

September.-Temperatures were unusually high and rain-

fall was about the usual amount, but was again badly distributed as to areas and amounts. Heavy mins the first week caused some boll rot and weevil activity in cotton, but the succeeding hot weather was favorable. Vegetables and truck were checked later in the month by drought. One person was killed by lightning. \$2,500 property damage occurred from windstorms, and \$10,000 damage from a tornado near Charleston on the 6th.

October.—Only about one-half the normal amount of rainfall occurred; temperature was near the average. Cotton picking was practically completed by the last week. Cercal sowing was delayed until the rains about the 17th. Truck and late gardens suffered from drought.

November.—Precipitation continued much below the average, and the month was unusually cool. Freezing temperatures advanced southward over practically the entire Section on the 8th and 9th.

December.—Decidedly warm and dry weather continued, being the 4th warmest and 2d driest month of the name of record. However, with a considerable number of light showers, winter crops and truck maintained fairly good condition. Ample rainfall for sub-soil was badly needed in central and southern portions of the State.

#### RETIREMENT.

Mr. Richard H. Sullivan, Associate Meteorologist in charge of this station since March, 1913, retired at the close of the year, according to Federal law. A more detailed account is to be had in the issue for December, 1933. Mr. Sullivan's address is Columbia, S. Car., R. F. D. No. 5.

COMPARATIVE DATA FOR SOUTH CAROLINA.

		Temper	ature.			Prec	ipitati	on.		Nm	mber	of I	ays.	
Year	Mean	Departure	Highest	Lowest	Ауегаве	Departure	Greatest	Least Annual	Average Snowfall	Precip01.		Partly	Cloudy	The same of the sa
1887	62. 3 61. 8 62.0 6 64.4 62.0 66.3 3 66.3 4 62.2 66.3 5 62.4 66.3 62.6 62.5 66.3 62.6 62.5 66.3 62.6 62.5 66.3 62.6 62.5 66.3 62.6 62.5 66.3 62.6 62.5 66.3 62.6 62.5 66.3 62.6 62.5 66.3 62.6 63.3 62.6 63.3 62.6 63.3 62.6 63.3 62.6 63.3 62.6 63.3 62.6 63.3 62.6 63.3 62.6 63.3 62.6 63.3 62.6 63.3 62.6 63.3 63.3	-0.7 2 -1.2 2 -1	110 108 102 104 104 105 106 105 105 105 105 105 105 105 105 105 105	5 13 3 10 11 13 6 6 3 3 8 8 11 1 2 2 7 7 11 11 16 6 6 6 6 6 6 7 11 1 1 1 1 1	43, 43, 43 54, 63 54, 63 56, 64 57, 52 58, 58, 58	-4.31 -4.55 -2.13 -4.155 -1.19 -6.15 -1.19	51, 299 67, 600 52, 148 63, 190 63, 190 64, 190 66, 191 67, 197 68, 190 67, 197 68, 190 60, 181 60, 181 60, 181 60, 181 61, 190 60, 181 61, 190 61, 190 62, 190 63, 190 64, 190 65, 190 66, 181 67, 190 68, 190 68, 190 69, 190 60, 181 61, 190 61,	31, 28, 44, 37, 73, 36, 67, 37, 38, 67, 37, 38, 67, 37, 38, 47, 38, 48, 48, 48, 48, 48, 48, 48, 48, 48, 4	0.4 12.5 0 6.2 2 1 2 3 1 1 3 0 2 2 1 1 1 3 4 2 2 1 T . 1 3 4 2 4 1 2 1 1 3 4 2 2 1 1 1 3 4 2 1 1 1 3 4 2 1 1 1 3 4 2 1 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 3 1 1 3 1 1 3 1 3 1 1 3 1	1611 104 86 86 105 88 86 99 96 107 95 96 98 107 99 94 91 102 93 93 96 93 97 99 98 98 97 112 88 18 87	154 154 158 143 158 143 167 167 167 169 159 159 169 181 181 163 178 183 178 181 179 183 178 181 179 189 189 189 189 189 189 189 189 189 18	123 116 119 102 1110 199 95 87 85 81 113 111 110 102 99 95 87 85 87 85 88 83 97 185 88 88 88 99 87 88 88 88 88 88 88 88 88 88 88 88 88	88 84 105 111 103 996 91 104 91 111 193 996 91 104 91 109 91 91 109 91 91 109 99 99 99 99 99 99 99 99 99 99 99 99 9	
928 929 930 931 932 933	62. 1 62. 3 62. 4 63. 6 64. 0 64. 4	-0.9 -0.7 -0.6 +0.6 +1.0 +1.4	102 101 108 107 108 106	0 2 6 10 5 0	61.66 66.13 40.15 37.17 54.08 35.95 47.74	+13, 92 +18, 39 -7, 59 -10, 57 +6, 34 -11, 79	86. 69 96. 03 55. 82 67, 71 101. 56 52. 85	42, 76 44, 96 31, 39 22, 38 39, 38 22, 56 22, 38	0.1 1.8 5.8 0.9 0.9 0.4	i	183 169 183 197 174 191	81 83 79 84 86 85	102 113 103 84 106 89	

MONTHLY AND ANNUAL CLIMATOLOGICAL DATA FOR SOUTH CAROLINA, YEAR 1833.

							, -									
	Те	mpera	ture		ľre	elpitat	lon.	Relative	humidity	possible sun-		inn of di			W1 3-cng	nd. Ane.
Months.	Mean.	Departures.	Highest.	Lowest.	Average.	Departures.	Greatest local mouthly amount.	Average -8 a. m.		Percentage of pos- shine.	Rainy.		Partly Cloudy.	Cloudy.	Average hourly velocity.	Prevailing direction.
January February March April May June July September October November December	51. 4 48.0 54.3 61.1 74.9 78.5 79.3 77.8 63.9 52.1 52.1	+0.4 -0.3 -1.2 +4.0 +1.1 -1.0 +0.5 +3.3	80 82 89 87 100 106 103 105 100 95 85 82	16 0 19 30 44 43 48 58 42 29 13 17	2. 64 4. 86 1. 96 2. 31 8. 19 2. 74 5. 15 4. 71 4. 06 1. 71 1. 23 1. 39	-0.73 -0.43 -2.03 -0.65 -0.99 -0.04 -1.32 -1.09	6.30 12.52	79 6 72 4 74 4 79 5 70 4 82 5 85 6 84 5 76 4	5 699 569 603 6557 609 722 78 7 73 44 68 8 59	45 76 69 78 77 64 64 60 76 76 77 73	5 6 11 10 5 4 6	20 14 19 17 13 12 19 20 19	8 6 7 7 9 10 10 7 5	9 5 4 8 9 6 6 6 11	9.6 11.1 10.3 8.9 8.0 7.8 7.9 7.8 8.4 8.9 8.8	\$W. W. 8W. 8W. 8W. 8W. 6W. W. Ine. W.
Annual	64.4	*+1.4	106	0	35.95	*-1179	13.04	79.5	5 67	67	83	191	85	81	8.9	SW.

<sup>\*</sup> From 47-year averages.

# KILLING FROST OR FREEZING TEMPERATURE DATES AND GROWING DAYS.

١	GRU	MINGT	AID.			
		19	33.		ges-all rec ears or mo	
	Stations.	Last in spring.	First in automn.	Last spring date.	First autumn date.	No. of grow- ing days.
	EASTERN PORTION.	Feb. 12	Nov. 15	Feb. 24	Dec. 5	284
	Beaufort (near) Bishopville		Nov. 9			
	Blackville	Mch. 16 Feb. 12	Nov. 9 Nov. 16	Mch. 20 Feb. 20	Nov. 14 Dec. 11	239 294
	Cheraw	Mch. 27	Nov. 9	Meh. 30	Nov. 3	218
	Conway Darlington	Meh. 11 Meh. 27	Nov. 9	Meh. 23 Meh. 29	Nov. 9 Nov. 4	231 220
	Ferguson	Meh. 6	Nov. 11	Mch. 26	Nov. 8	227
	Florence No.1	Meh. 11 Meh. 6	Nov. 9 Nov. 9	Meh. 19 Meh. 10	Nov. 12 Nov. 13	238 248
	Kingstree	Mch. 6	Nov. 9	Mch. 15	Nov. 14	244
	Marion	Meh. 27 Meh. 11				
	Orangeburg	Mch. 6	Nov. 9	Mch. 18	Nov. 15	242
	Pinopolis	Meh. 11 Meh. 27	Nov. 9 Oct. 26	Mch. 5 Mch. 24	Nov. 25 Nov. 8	229
	Summerville	Meh. 6 Meh. 11	Nov. 9 Nov. 9	Meh. 16 Meh. 19	Nov. 13 Nov. 14	242 240
	Sumter	Meh. 11	Nov 9	Mch. 19 Mch. 21	Nov. 19	243
	Yemassee	Mch. 6	Nov. 9	Mch. 15	Nov. 13	243
	Normal	Meh. 10	Nov. 9	Mch. 16	Nov. 14	243 244
	WESTERN PORTION.	Mch. 6	Nov. 9	Mch. 17	Nov. 19	247
	Anderson	Mch. 1i	Nov. 9	Meh. 25	Nov. 9	229
	Caesar's Head	Apr. 7 Mch. 11	Oct. 26 Nov. 9	Mch. 29	Nov. 5	221
	Camden	Meh. 11	Nov. 9	Meh. 14	Nov. 13	244
	Cherokee (ncar)	Meh. 27 Meh. 27	Oct. 27 Nov. 9	Apr. 1	Nov. 2	215
	Columbia Due West	Meh. 11	Nov. 9	Meh. 17 Meh. 24	Nov. 18 Nov. 16	246 237
	Greenville	Mch. 11	Nov. 8	Mch. 30	Nov. 6	221
	Greenwood	Mch. 22 Mch. 27	Nov. 9 Oct. 26	Meh. 23 Meh. 27	Nov. 9 Nov. 6	281 224
	Kershaw	Meh. 6	Nov. 9	Meh. 28	Nov. 7	224
	Landrum	Meh. 27 Meh. 11	Nov. 9 Nov. 8	Apr. 5 Apr. 2	Oct. 31 Nov. 6	209 218
	Little Mountain	Meh. 27	Oct. 26	Meh. 25	Nov. 11	231
	Long Creek	Apr. 17 Mch. 27	Oct. 26 Nov. 9	Meh. 29	Nov. 5	221
	SaludaSantuck	Mch. 11 Mch. 27	Nov. 8 Nov. 8	Apr. 3 Apr. 5	Oct. 31 Oct. 30	211 208
	Spartanburg	Mch. 22	Nov. 9	Mch. 31	Nov. 3	217
	Trenton	Mch. 11 Apr. 7	Nov. 9 Nov. 8	Mch. 20 Apr. 8	Nov. 15 Oct. 28	240 203
	Winnsboro	Meh. 11	Nov. 9	Mch. 25	Nov. 13	233
	Winthrop College	Mch. 27	Nov. 9	Meh. 28	Nov. 6	223
	Normal	Mch. 21	Nov. 6	Mch. 27	Nov. 7	225 230
	Section Normal	Mch. 16	Non 5	Meh. 22	Nov. 10	283
	Section averages for 1966	мен. 16	Nov. 7			236

Note.—Killing frost data in above table determined according to the following standard: Last or first clear or partly cloudy day with temperature of 22° or lower and last or first cloudy day with 31° or lower, but without rails sleet or 3330°: in case of precipitation, then the next preceding or succeeding day with proper temperature and weather was used. The average number of growing days is the difference between the average spring and autumn killing frost dates.



- KEY TO SYMBOLS.

  Meteorological observations. (Regular Weather Bureau Stations, including Spartanburg.)
- O Meteorological observations. (Sub stations.)

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

33

G. C. MERCHANT.

Vol. XXXVII. COLUMBIA, S. C., JANUARY, 1934.

# GENERAL SUMMARY.

Temperatures averaged considerably above the normal, and precipitation averaged not much more than half the normal amount.

fairly good progress in growth was made until the hard tain, 5; Mars Bluff. 5, 23; Newberry, 5, 6; Pelzer, 6, 26; freezes of the 30th and 31st. This extreme cold greatly damaged winter vegetation and grain, especially cats which were killed to the ground in a number of places in northern and central portions. Truck was severely damaged along the coast, much was killed outright, such as cabbage and lettuce planting of grain occurred later. Tree fruits remained dormant. Plowing made generally good progress, and there was considerable hog killing at the close of the month.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 40 stations, was 47.3°, or 1.4° above normal. The highest temperature was 82° at Ferguson on the 6th. The warm periods were on the 1st and 2d, from the 5th to 8th and zero at Caesars Head on the 30th. The cold periods were on the 3d and 4th and from the 29th to the 31st, when daily and Dillon Counties. means averaged from 5° to 28° below normal. A rather severe cold spell prevailed the last three days, with hard freezes to the coast.

#### PRECIPITATION.

The average for the Section, 53 stations reporting, was 1.88 inches, or 1.68 inches below normal. Except for about normal amounts along the extreme northwestern edge of the State, measurements of monthly precipitation ranged from 3 inches downward to less than one-half inch. The greatest local monthly amount was 4 57 inches at Caesars Head. Greenville County; the least local monthly amount, 0.34 inch at Effingham, Florence County. The greatest amount during any 24 hours was 1.26 inches at Calhoun Falls, Abbeville County, on the 7th. The average number of rainy days was about 12% below normal. No snowfall was reported.

#### RIVER CONDITIONS.

On account of the generally light precipitation, rivers continued at low stages, except slightly above normal flow at Pelzer on the Saluda River.

#### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 23, 24, 25, 26; Columbia, 22; Santuck, 24. Solar, none.

Fog (dense). - Beaufort (near), 22, 23, 25; Bishopville, There was hardly enough moisture for winter cereals and 5; Blackville, 5, 23; Catawba, 5; Cherokee, 26; Columbia, truck in central and southern portions of the Section, though 5, 12, 13, 22, 23; Landrum, 5, 6, 7; Laurens, 6; Little Moun-Santuck, 6, 26; Spartanburg, 5, 6, 7, 13, 26; Trenton, 5, 6, 23; Walhalla, 5, 6, 7, 26; Winnsboro, 5, 6, 7, 26; Yemassee, 5, 6.

#### COMPARATIVE JANUARY DATA, BY COUNTIES.

The highest average temperature to the close of 1930 is plants; strawberry plants were damaged, also. Some re- 50.0° in Braufort County, and the lowest 40.4° in Oconee County. The greatest average daily range is 23.2° in Bamberg County, and the least, 20.1° in Newberry and Union Counties. The absolute highest temperature for this month was 85° in Georgetown County. The absolute lowest minimuintemperature was 8° below zero along the northern border of Oconee County.

The greatest total monthly precipitation of record for any January was 12.60 inches in Aiken County, and the greatest 24-hour amount was 8.10 in Fairfield County Average snowfall ranges from trace in Beaufort and Jasper Counties to 12th to 28th, when daily mean temperatures ranged from 5° 2 2 inches in Oconee County. The greatest monthly amount to 22° above normal. The lowest temperature was 2° below was 12.9 inches in Greenville County, and the greatest 24-honr anowfall was 9.0 inches in Greenville, McCormick, Marion

#### ERRATA.

December, 1933.-Walhalla, minimum temperature on 19th, page 48, should be 46 and mean minimum temperature should be 35.9. Wedgefield, lowest temperature, page 46, should be 22.

#### PRESSURE, WIND, HUMIDITY AND SUNSHINE.

,	Atn (rec	luced	ric p	a-leve	e I)		Wir	ıd		hu	elati mid	ty	ge of sunshine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage suns
Asheville, N. C Augusta, Ga Charleston, S. C. Charlotte, N. C. Columbia, S. C. Savannah, Ga Wilmington, N. C. Means and ex !	30, 21 30, 18 30, 18 30, 18 30, 19 30, 18 30, 18	30. 46 30. 46 30. 47 30. 49 30. 49 30. 44 30. 52	31 31 31 31 31 31	29. 54 29. 65 29. 65 29. 48 29. 60 29. 71 29. 49	28 28 29 28 28 28 29 29	9.5 6.1 10.2 11.5 7.5 10.5 8.9	34 22 25 35 27 32 30	nw. w. sw. w. sw. sw.	29 28 1 28 7 28 1	79 82 79 76 80 82 78	54 57 61 58 58 63 55	61 63 74 59 63 74 69	57 57 60 67 54 57 64
tremes	30. 19	30, 52	31	29.48	28	9.2	35	w.	28	79	58	66	59

#### Des for January 1934

					Clima	tologi	cal l	Data	for	Janu	ary,	984.				_		-		
			record.	Т	empera	ture, ii	degr	ees Fa	hr.		Precip	itation.	in ine	hes.	Num	ber o	of da	ys.	direction	
Stations.	Counties.	on, fee	Length of received years.	Мевп.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest dails range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipition (0.0) in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
D. A B 12			1			1											-		18	
Eastera Portion.  Beaufort (near) <sup>‡‡</sup> Bishopville Blackviiic Clurleston Cheraw	Beaufort Lec	21 224 296 48 144	54 51 64 58	\$51.0 49.2 51.0 52.6 47.2	-0.5 +3.4 +2.7 +3.4	ε75 75 76 73 76	27 7 7 5 7	618 11 16 18 10	31 30 30 30 30 30	837 56 51 31 44	0.79 0.80 2.38 1.80 1.52	-2.05 -0.99 -1.22 -1.62	0, 55 0, 34 0, 51 0, 55 0 77	0 0 0 0	5 6 10 9 9	17 11 10	6 13 8	8 7 13	ne. n.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
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Florence 1	Florencedo	136 136 82 54	53 20, 18 54	48. 4 50. 8 51. 4	+2.8 +0.5 +3.4	78 *81 81	7 7	10 12 10	30 31 31	44 549 52	0.80 0.95 1.80 1.11	-2.17 -2.02 -1.28 -2.08	0.64	0 0 0 0	8	11 16 13 19	5 9 13 1	15 6 5 11	ne. n. w.	H. K. Gilbert. Pec Dee Experiment Sta. Muner B. Robert. Mrs. Ellen Scott. Dr. Charles B. Whilden.
Marion  Mars Bluff Myrtle Beach. Orangeburg Pinopolis**	Mariou Florence Horry Orangeburg Berkeley	68 92 30 264 54	20 88	50.8 47.0	+3, 1 -1. 0	76 74	 7 7	15 7	†30 31	54	0.80 1.55 0.93 1.51	-2.06 -1.98 -2.11		0 0 0	11 5	11 14	7 9	13 8	nw.	Rosa R. Davis, J. E. Bryan, Jr. U. S. Fisheries Station, Miss E. P. Ruvenel, Marion P. Sweatman.
Society Hill Summerville Sumter Wedgedeld	Durlington Dorelester Sumter	97 192 75 169 249	44 37 13 44	*47.8 49.8 49.0 49.9	+3.7 +0.4 +2.4 +3.6	*77 77 78 78	7 7 7 7 7 7 7	* 6 12 9 11	30 31 †30 30 31	55	1.72 1.07 0.94 1.53	-1.47 -2.07 -2.62 -2.06 -1.36	0.94 0.50	0	5 7	16 14 17 16 14	3 5 5 9 4	12 12 9 6 13	n. ne. w.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Dept. W. Humpton Ramsey W. G. Hulson.
Vennissee Division means and	Hampton	24		52.0 49.8	+3.1	81 82	6	6	30		1. 22	-2.0		0	7	15	6	10	ne.	0 0
Western Portion,			100			100	11			17			1					1	1.	
Alken	Fairlield	527 764 293 3118 508	42 3 20 3 19 4 36	50.2 *45.8 39.0 45.8	+3.8 +1.6  +3.3 0.0	69 76	† 6 27 28 7	14 *10 -2 10	30	59 52	2.66	-2.2 -1.6 -2.1 -1.8 -1.7	2 0.6 6 0.5 1.20 2 1.2	5	0 6	7 14 7 14 9 15	5 10	15		Frank B. McCoy. H. H. Russell. Sarah L. Owens. Caesar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Canaden  Catawlor  Chappells  Cherokee (near)  Clenson College  Columbia	York Newberry Spartanburg Oconee	56: 40: 75: 85: 35	2 29 2 30 8 7 0 43		+3.6	73	27 27 27 7	77714	30	57	2, 22 1, 80 2, 44 2, 71	-1.4 -1.8 -2.2	8 0.7 4 0.6 0.5 5 0.8	8 8 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 17	) 1			James C. Faris. William Spearman. Spartanburg Water Works. Prof. F. H. H. Calhonn. U. S. Weather Bureau.
Crescent. Edgelleld Ellenton Gaston Shorbs 11	Spartanburg	63 55 7	0 8 0 22 6 3 0 32				27			::::::	3. 95 2. 21 2. 65 1. 98 2. 66	-2. I	0.9	8 6 2	0 1	9 7 9 1 1		i	ne.	A. A. Foreman. Southern Public Utilities. Walter R. Hall.
Greenwood Heath Springs Kershuw Landrum Lantens	Greeuwood Laucaster Kershaw Spartmiburg	. 100	8 38 00 19 33 20	45.	+1.	3 71 6 71	27		3	0 40 0 45 0 6 0 5	0.8	$\begin{vmatrix} -2.6 \\ -2.8 \\ -2.5 \end{vmatrix}$	82 0.4 83 0.4 27 0.5 04 0.5	7 14 12 7	0 0		7 0 4 8	0 2	4 W. 8 NW 9 W.	L. G. Roff.
Little Mountain Long Creek Newberry Pelzer Saluda	Newberry Oeonee Newberry Anderson Sulnda	. 85 . 55	00 02 8 50 8 36 8	42. 1 47. 1 3 44.	$\begin{vmatrix} 6 \\ 8 \\ -0 \end{vmatrix}$	9 71 9 72 5 74	20	7 1	6 18	30 5	0 4.0 1 1.8 3.0 6 2.0	8 -2. 8 -1. 4 -1.	15 0.1 57 0.1 85 0.	86 80 96 72	0	6 1	5 34	6	1 n. 8 w. 14 w.	John H. Baxter. Earl J. Friek. B. B. Blense.
Spartanburg Trenton Walluffa Winnsboro Wintfrop College 11	Spartanburg Edgefield Ocouee Fairfield	85 10 5	12 4 24 5 20 4 61 8 45 4 90 3	8 44. 2 47. 5 48. 1 45.	8 +3. 2 +0. 4 +1. 6 +1.	1 71 5 70 1 69	1 2 12	7 1 6 1 7	0 0 6 9	30 5 30 5 80 5 80 5 30 4 30 5	7 1.4 7 3.4 3 1.8	7 -2. 6 -1. 8 -2.	15 0. 54 0. 17 0.	65 94 66	0	5 10 7 9	17 18 8 11	4 9 11	13 sw 10 e. 9 sw 14 ne 9 n.	Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division menns as Section means as	extremes			1		. 7	8 2	6 -			51 2.5			26	0 0		15	5	11 w	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. Also on other dates. It Received too late to be included in means and summaries. "Temperature data are related in the day in the report of the data are related from the related for the day of the sections were stollarly as a fine surre; of Winthrop College, Rock Hill; of Ferguson, Entawville; of Casar's flead, Greenville; of Beaufort (near), Burton. Three-pitation is less than 0.01 inch of rain or melted snow.

Daily Precipitation for January, 1934.

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Reference letters (\*, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

### Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raieigh, 3-5 34-900

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

33

G. C. MERCHANT.

Vol., XXXVII. COLUMBIA, S. C., FEBRUARY, 1934.

#### GENERAL SUMMARY.

The monthly mean temperature of 40.6° was the third coldest February for the State, as a whole, since the beginning of records in 1887. Previous lower averages were 37.4° in 1895 and 38.9° in 1905, while in 1902 the average was the same as this year for the month. Precipitation averaged slightly below normal.

The severe cold weather that overspread the Section the ast three days of January was modified to some extent on the 1st. However, temperatures continued much below the normal during nearly the entirementh, with only a few days occasionally of mildness. Due to further hard freezes on the 10th and 28th, recurring damage was done truck in coastal sections and generally to grain, especially oats. Practically all cabbage and lettuce plants were killed. Probably about 50% of the oat crop was so badly damaged that replanting would be necessary, although some oats revived after the 15th, out were damaged again by the freeze on the 28th. Also, considerable truck that had been reset, or replanted, suffered damage. Tree fruits remained dormant, even hardy shrubbery showed little signs of leafing. Not much plowing, or preparation of soil, was accomplished on account of unfavor-able soil conditions. Pasturage for live stock was mostly due to slippery payements. poor. Spring white potato planting on the coast was delayed. Extensive hog killing proceeded.

The monthly mean for the Section, determined from reports of 42 stations, was 40.6°, or 7.0° below normal. The highest temperature was 82° at Garnett, Hampton County. on the 25th. The warm days generally were confined to the 5th and 15th, when the daily mean temperatures ranged from  $5^{\circ}$  to  $16^{\circ}$  above normal. The lowest temperature was  $5^{\circ}$  at Caesars Head, Greenville County, on the 10th and 27th. The cold periods, generally, were on the 1st, 6th to 13th, and from the 17th to 28th, when daily means averaged from  $5^\circ$  to  $28^\circ$  below normal. It was especially cold from the 9th to 11th, and on the 27th and 28th, with hard freezes to the coast.

#### PRECIPITATION.

The average for the Section, 54 stations reporting, was 3.83 inches, or 0.45 inch below normal. Distribution was air, except there was some excess in a few places of northwestern and southeastern counties, and a considerable defieiency in portions of Beaufort, Saluda and McCormick Coun-Total monthly amounts ranged from 6.22 inches at rescent, Spartanburg County, to 1.66 inches at Beaufort (near). The greatest amount during any 24 hours was 4.40 (near). nches at Crescent on the 25th. The average number of rainy lays was about 12% below normal.

Snowfall for the Section averaged 0.3 inch; the normal 1.0 inch. Depth of 0.5 inch to 3.0 inches occurred from Edgefield County northward through Laurens and Anderson

Counties on the 10th; also, 0.4 inch was reported from Kingstree, and 0.8 inch from Ferguson, in the lower part of the State on the same date. Traces of snow fell as far south as Berkeley County. The greatest 24-hour snowfall was 3.0 inches at Greenwood on the 10th, from the stations reporting. Light sleet occurred generally on the 10th, and in central ard upper portions on the 11th and 24th.

Damage by Windstorm .- During the evening of the 25th a rather severe sleet and ice storm occurred in portions of Anderson, Union, and adjoining counties. High winds, in connection with a moderate ice coating, blew down a considerable number of telegraph and telephone poles, paralyzing service at some places. Some trees were up-rooted and I wildings unroofed. At Luray the dwelling of G. M. Johnson was blown down and two persons were slightly injured, damage estimated, \$1,000; at Union a number of chimneys and roofs were wrecked, damage about \$3,000.

Damage by Lightning .- St. John's Lutheran Church, Walhalla, was struck by lightning on evening of 25th, with slight

Damage by Thunderstorm .- Several chimneys and roofs were blown down, plate glass fronts in a few stores were smashed, some trees uprooted, at Iva, Anderson County, on the 25th, damage about \$5,000; at Saylor's Cross Roads, same county, on same date, a harn and a garage on faim of J. I. Murdock, and three outbuildings on farm of Oscar Ashley were wrecked, or partly so, damage alout \$2,000.

Injuries from Sleet and Ice Storm .- Minor injuries and acdue to slippery pavements.

## RIVER CONDITIONS.

Rivers continued below flood stages, except for a sharp rise on the Saluda River at Chappells on the 28th, and at Blairs on the Broad River, 27th.

#### MISCELLANEOUS PHENOMENA (dates).

Halos-Solar: Columbia, 21. Lunar: Charleston, 25; Co-

Hail (light) .- Anderson, 25; Charleston, 16; Columbia, 26; Little Mountain, 26; Walhalla, 25. Moderate hail at Greenville on 25th.

Fog (dense).—Beaufort (near).9; Bishopville, 22; Charleston, 11. 12; Greenville, 26; Pelzer. 26; Santuck, 26; Spartanburg, 12, 26.

# PRESSURE, WIND, HUMIDITY AND SUNSHINE.

1					pressur a-level			Win	ıd		hu	mid	ve ity	of
	Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 р. т.	Percentage c
	Asheville, N. C Augusta, Ga. Charleston, S. C Charlotte, N. C Columbia, S. C Savannah, Ga Wilmington, N. C. Means and ex- tremes.	30. 29 30. 15 30. 15 30. 18 30. 18 30. 15 30. 18	30, 84 30, 76 30, 75 30, 86 30, 83 30, 71 30, 85	28 27 28 28 28 28 28	29. 62 29. 66 29. 57 29. 60 29. 62 29. 61 29. 53 29. 58	26 1 1 26 1 1 12	1, 09 7, 1 12, 0 11, 9 7, 9 12, 0 10, 3	31 25 30 38 21 34 38 38	nw. s. sw. nw. sw. w. sw.	23 25 1 13 15 1 26	74 75 79 68 76 80 79	61 50 53 61 61	55 53 72 48 54 69 67	71 66 69 66 54 68

#### Climatological Data for February, 1934.

					Clima	tologi	ical I	Data	for :	Febr	uary,	1934								
		t.	ord.	Т	empera	ture, ir	ı degr	ees Fa	hr.		Precip	itation,	in inei	ies.	Sumb	er of	da y	s.	direction and.	
Stations.	Counties.	of fee	Length of reco	Mean.	Departure from the normat.	Highest.	Date.	Lowest.	1	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 nours.	Total snowfall, unmelled.	(0.01 in. or more)	Clear.		Cloudy.	Prevailing dire	Observers.
Rastera Portion.  Beaufort (near)33 Bishopville Black ville Charleston Conway Darlington Edinghum Florence Florence Florence Garriet Kingstree Marion Mars Bluff Myrtle Beach Orangeburg Plunoolis* Rumin Society Hill Sunnaerytille Sunnter Wedgedeld Vennassee Division means and	Barnwell. Charleston Chesterfield Horry Darlington Florence Orangeburg Florence .do Hampton Williamsburg Marion Florence Horry Darlington Florence Horry Unaughor Burlington Dorehester Sumter Sumter Hompton	224 296 48	54 51 64 53 46 40 44 49 58 20 18 54 11 12 3 20 88 21 44 44 46	46. 6 41. 6 45. 4 46. 0 40. 0 44. 4 39. 2 44. 1 43. 4 44. 6	-6.3 -3.7 -6.4 -5.7 -4.7 -7.1 -4.3 -8.0 -7.7 -4.3 -6.2 -6.2 -6.2 -6.4 -4.2 -6.3	70 68 79 71 71 77 68 68 76 68 76 68 77 77 77 77 77 77 77 77 78 86 86 82 82 82	25 15 25 25 15 25 15 25 15 25 25 25 25 25 25 25 25 25 25 25 25 25	20 12 17 19 10 11 10 	10 10 10 10 10 10 10 10 10 10 10 10 10 1	40 44 44 47 28 46 49 45 45 	1. 66 3. 98 4.21 3. 07 4. 11 3. 07 5. 09 3. 81 2. 47 3. 08 8. 22 4. 14 4. 60 4. 14 4. 28 4. 03 4. 17 3. 81 3. 81 3. 81 3. 81 3. 81 4. 17 3. 81 3. 81 3. 81 4. 17 3. 81 3. 81 4. 17 3. 81 3. 81 4. 18 4. 18 5	-2.25 +0.06 +0.09 +0.01 +0.94 -0.90 +0.04 -1.17 -1.04 -0.90 +0.84 +0.84 +0.39 -0.19 -0.10 +0.06 -0.90 -0.10 -0.06	1.03 1.35 0.94 1.18 1.25 1.00	T. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 7 10 9  10 6 8 9 6 6 7 10	15 10 21 15 14 20 16	0	7 4 110 7 112 8 6 6 6  5	ne. ne. ne. ne. ne. ne. ne. ne. ne. ne.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews U. S. Waather Bureau. Rohmd D. Powe. Perry C. Quattlebanm. D. C. McCall. Wm. B. Gillesvie, Henry C. Savage. I) K. Gilbestie, Henry C. Savage. I) K. Gilbestie, Henry C. Savage. I) K. Gilbestie, Henry C. Savage. I) K. Gilbestie, Henry C. Savage. I) K. Gilbestie, Henry C. Savage. I) K. Gilbestie, Henry C. Savage. I) K. Gilbestie, Henry C. Savage. I) K. Gilbestie, Henry C. Savage. I) K. Gilbestie, Hidden, Hidd
Western Partion.  Aiken Anderson Blairs Casars Hend# Calhoun Falls. Canden	Fairfield	527 764 293 3118 508 222	78 42 20 19 86 85	45.5 40.0 31.8 39.6 36.9	-4.0 -6.1 -6.9 -10.5	78 68 65 70 70	25 4 15 15 15	16 15 5 13 10	10 10 †10 10 †10	45 40	3,80 4,28 3,13 3,07 2,43 4,07	-0.30 -0.76 -1.07 -2.65 +0.18	2.25 7 0.98 2.00 3 1.10	0.8 0 1.5 2.5	8 5 6	19 17 10 18	3 3 6 6	6 8  12 4	ne, w.	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Crosar's Head—P. Mtn. Co L. M. Parker. Henry A. Brown.
Catuwbn Chuppells. Cherokee (near) Clemson College Columbia	Vork	562 402 758 850 351	29 30 7 43 48	37. 7 41. 4 41. 7		68 76	15 15 15	13 12 14	10 10 10	52	3. 01 3. 15 4. 90 4. 65 3. 77 6. 32	-1.5 -1.04 -0.73 0.00	3 1.06 2.32 3 1.90	1.0 T.	11	17 13 12	2 2 7	9 18 9	w. ne.	James C. Faris. William Spearman. Spartanburg Water Works, Prof. F. H. H. Callionn. U. S. Weather Bureau. Duke Power Co.
Crescent. Edgefield Ellenton Guston Shouls []. Greenville.	Aiken	630 550 76 680 1039	32 51	38. 1	-5.2	69	15	15		39	8, 57 3, 62 5, 55 4, 34		0 1.28 0.98 6 3.18 4 2.30	T.	8 9 9	20	2 0	6	ne.	J. C. Doscher. A. A. Foreman. Southern i'ublic Utilities. Walter R. Hall. M. M. Calhoun.
Greenwood Heath Springs Kershaw Landranu Laurens	Kershaw	671 568 500 1063 589	33 19 20	36. 6 38. 8	$ \begin{array}{c c} -8.1 \\ -8.5 \\ -6.5 \end{array} $	67 68 68	15	11	10	40 44 42	2. 94 2. 66 4. 56 3. 06	-0.9 -1.2 -0.1 -1.8	0.90 1 1.00 0 3.20 5 0.9	T. 1.0	9		2 0 9 8	10 19 5 6	w e. w. n.	J. Marvin Bowers. John W. Hamel. R. Hartwell Wilds, D.D.S. L. G. Roff. Miss Elberta Sease.
Little Monutain Long Creek. Newberry Pelzer Saluda Sautuck	Newberry Oconee Newberry Anderson Sgluda	502 850	31 31 31 31 31 31 31 31 31 31 31 31 31 3	36. 0 40. 1	5 -5.9 7 -8.6	69 70 6 70	15 15	14	† 10 10	44 42 0 46 0 50	5.55 3.85 4.77 2.05 2.30	-1. 1 -0. 0 -2. 5 -2. 5	3. 2. 12 1. 0 05 2. 5 66 1. 0 59 1. 1	5 T. 1. 6 T. 0 0,	5 7 5 5 0 6	12	4 5 8 10	6 6 8	e.	Mrs. K. L. Burton. John H. Baxter. Earl J. Frick. B. B. Bleasc. W. O. Jeter. U. S. Weather Bureau.
Spartanburg Trenton Walhalfa Winnsboro Winthrop College II	Oconee Fairlield York	546	0 4: 1 8: 5 4 0 3:	2 41. 5 37. 1 38. 5 38.	$ \begin{array}{c cccc} 6 & -5.5 \\ 2 & -6.5 \\ 2 & -7.5 \\ 2 & -6.5 \end{array} $	8 68 9 70 6 70 4 69	†15 1 4 1 15 1 15	5 14 1 15 5 15 5 15	2 2	0 49 0 46 0 89 0 4	3 4.3 4.8 3.3 4 3.2	2 -0.5 2 -0.5 2 -1.5 9 -0.	56 1.1 60 2.3 02 0.9 91 1.1	8 0. 6 1. 0 T.	0 3	16 17 10 10 12	6 5 10 8	6 8 8	e. ne ne.	Mrs. S. E. Long. 11. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division means ar Section means ar			- 1	40	-				5 †1	1						7 15	5	5 8	ne.	had reports are used in

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for examine, b represents two days missing, etc. determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for examine, b represents two days missing, etc. days on other dates. If Received too late to be included in means and summaries, "Temperature data are relating of the dry unit, means are computed from observed readings of their earlies of of these stations were solitons; Black-burg; of Winthrop College, Rock Hill; of Ferguson, Eutawyille; of Cesar's Head, Greenville; of Beaufort (near), Burton, T. Precipitation is less than 0.01 inch of rain or melted snow.

# Daily Precipitation for February, 1934.

Day of month.

																											-	-			-	-	65
Stations.	Drainage- basins.	1	2	8	4	5	6	7	8	9	10	11	12	18	14	18	16	17	16	19	20	21	22 3	8	2 6 2	5	26	27	26	29	30	31	Tot
Eastern Partion.		1		1	1	1	1	1		1	. 1							1	T.	. 23			T		١.	50							1.66
eaufort(near)	Const	1									. 60	. 30	T.				, 03	100	4.	. 20			.05				. 78						3.95
dishopville	Black	1.21									T. [.		.16	ė.				1.		1 00			13		119	r. h	1.03						4.21
using Printe	Edisto	. 53	. 25							400			. 95	Т.			02	07		50			. 13 .		r .		. 35 .						8.07
mekville	Coast	. 99	.01							T.	.17	. 01	. / 1	110			. 00	.07		. 39	. 45		.28 .				. 59						4.11 5.09
heraw III	Peedee	. 58	. 62																	. 38	1.80		.06				. 40	. 08					0.00
onway III	Waccamaw	, 45	1.05									. 03	. 00	, 40												- 1			- 1				3.81
								- 1				31	1.06					T.		. 43			. 15				. 52						8, 47
hirlington	Lynches	1.20	. 45									1	. 98	. 09				T.		. 42	. 31		. 09	r.  .			. 41						5,00
mughun		.88	. 29									. 08	1,20	. 17						1. 15	. 15			. 90 .								11111	8.08
erguson	Peedee												1. 17	. 05				T.		. 15			.70			10							3.22
florence 2	do											T.	1.01	.10				1.								48	95	• • •					4.14
Writett	Savannah										.15	. 07	. 83							. 43			. 46 .			* 1	, 01				1111		
	communition	1.00							1		- 3									on	.75		. 04 .				. 35	. 05					4.60
Cingstree III	Black	.50	. 82									.22	. 94	.03						. 90	. 10		.04.										3.71
larion	Peedee		1											***			1	T		15	79		.11	T.			. 46	, 02					
lars Bluff	do	. 55	. 62									. 02	. 93	. 10				1		. 10													4.08
lyrtle Beach	Const												1 10		1	1				.89	)		9.4				.64						3,99
Drangeling	Edisto	1.10	0, .03																	1.50			.10				. 75						0,00
'Inopolis	Caoper	1.44										. 10	. 10							6.1			1										4.28
		. 90	. 20		10.00		10 0					. 19	1.03		1			. 09			, 20		. 10										4.03
tholal ##	Peedee	. 90	. 20									.06	1.03	. 12	2			. 02		. 18	5		. 47										4.17
Society IIII III	Ashley	1. 30	.00									20	. 9.1	. 12	2					. 45	. 44		. 25				.48	. 05					8, 81
Summerville	Ashley	1 10	3 . 30				1111					. 24	.77					.03			2		. 10				. 01					11111	8,90
Vedgeffelo	Wateree	1 25		1								. 05	.80							+ 90	0		. 10	0.0			63					1111	3.78
ennissee	Ashepoo	1.00	1 25		11111						. 20		. 67	.2	1					. 2	2 . 25		. 30	. 00			. 00					1111	
Western Partion.	Asircyan,	W.																	1	81	3		. 14				1.06						3.80
Alken	Edisto	91							,											84	9	1	. (19		T. 1	.10	1.15						4.28 3.13
Auderson	Sayannah	. 1.0											. 33										733	16			97						3.13
Bluirs III	Brond	85	5 . 15	3																													2,43
causars Head	Saluda		.   . 18								05	111	. 40						1							. 11	1.10						4.07
Calhonn Falls	Savannah	. , 59	9		1						. 20	0.6	1 09		8		11	0		5	8 .20		. 13				.78						4.01
Camden III	Wateree	67	7 .47										1, 00						1				1				1		1				3, 01
3 . t	Carawba	50	0 0									. 13	. 37	.1	1						2			.11			.91						3.15
Catawba										V.II		. 20	15	. 0	2			0	4	3	2 .0.	1	. 02	. 10	T.		0 20						4.90
Cherokee (near)			ā . 11									T	. 51							2	6					.80	1 00						4.65
Clausean Callaga												, 30	1.40							. 3	5				T.	06	8.3						3.77
Columbia ***	Congaree		4								. 05	. 42	. 66					0		1	2	00	. 07								1111		6.32
Crescent	Enoree											. 48										. 00			- 1			1					3, 57
			1	1	1	1						00					1			6	8						1.23						3, 62
Edgeffeld fil	Savanimh											. 32	, 50								5		. 08				.70						5, 55
Ellenton	Savannah	. 9	3 .0	1							. 00	10			5				100	4	5	D 10	. 04	. 19			3.15	5					4.34
Guston Shonds III		3	8 .8	0								. 18	1 41	0	1				1	. 3	6		.01			. 03	3 2. 30				1		4. 15
Breen ville	Salight	8	2 .2	8																5	0		. 11	. 05			1. 12						2.94
Green wood     Heath Springs	Wnterce	1.6	a . a	0		1 .			1111				.8		1111					3	6						. 87						
neatti Springs	Willette		0										1		1	Y		1		и.		1	1		- 7		00	,			1		2, 66
Kershny .!!	Lynches	1.0	13				1					.28									2	• • • •			T		5,2,41				1:::		4.56
Landring						11:::							3 . 3	2							22		10			10	9				1111		3.06
Laurens				8							. 15	5 . 20	. 13	3							18		30		T.	. 10	.66	3	1	1			3. 23
Little Mountain	Sahada	9	00	1							. 08	3 .2	. 5	В							5			0.4		0.6	6 3. 25	5	1	1111			5.52
Long Creek	Savannah	8	31 . 3	1									.6	3							30						1.0	4					3.33
Newberry	Saluda	9	2									. 4	0 . 4	2				0	7		15												4.71
Pelzer III	do	.6	36 . 5	5	.]				1			. 0	2 . 4	o T	1								100		1			1		1	1	1	2.12
		1	1						1		21	6	1			1			4	15	.	10	1.12			1.00	0						2.20
Salnda	do							1			1.31	0	0 .4	9							32		.08			.1	4 T.					1	3.77
Santnek	. Brond		14																					02		T.	1.9	6					4.82
Spartanburg	do		10	1	4		1			1		1.1	2				1.	1			63		.1 . 23		,i,	. 01	61.1	0				1	4.82
Trenton	. Edisto	1. 1	18					1		1:::		3 .2	9 9	9	- 1		4				261		. 02		1,	. 63	32.3	6	1				3.32
Walhalla	Broad		0						1			T	. 9	0 . (	06						46 . (	6	. 02	. 12		T	.7	0				1	3.29
Winnsboro ## Winthrop College	Catawba		19 . 6					1	.1		1	1.1	5 .4	0							34		09				n' .8						
a monrop conege	attenting	. 1. 1	12 .				***																	s for	r the	24	hon	rs e	ndin	gnt	the	time	of

Except as otherwise indicated, observations are generally made into in the afternoon, near smaset, and precipitation recorded is for the 24 hours ending at the time of observation. Ill Precipitation measured in the morning; amount then recorded is for the precipitation in the precipitation is for the observation. Ill Precipitation measured in the morning; amount then recorded is for the recorded in the precipitation included in the next following measurement. Its practice of falls not recorded. T. Trace, or less than 0.01 help. 24 hours period, including to minimize the minimize of the precipitation included in the next following measurement. Its practice of the process of

								COL	MPA:	RAT	IVE	DAT	A FOR	FEB	RUAR	Α,											
		Tempera	ture			Preci	pitatio	on		Num	ber of	Days			Tempera	ature			Prec	ipitati	on		Num	ber o	of Da	ys	
Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least	Average	Precip01 inch or more	Clear	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip01 inch or more	Clear	Partly	Cloudy	
1887 1888 1890 1890 1890 1892 1893 1891 1895 1895 1899 1899 1899 1901 1901 1906 1906 1907 1909 1909 1909 1909	41.9 56.17 49.2 51.0 48.9 37.4 48.2 50.0 41.5 43.0 43.2 40.6 49.0 45.2 38.9 46.0 45.1 43.6 55.2	+5.0 +2.3 -5.7 +8.5 +7.1 +1.6 +3.4 +1.3 -10.2 +0.6 +2.4 -3.1 -4.6 -3.6 -4.4 -7.0 +1.4 -2.4 -2.4 -2.4 -2.5 -4.0 +1.4 -2.5 -4.0 +2.4 -2.4 -2.4 -2.4 -2.4 -2.4 -2.4 -2.4 -	80 75 83 83 73 82 76 78 81 83 78 80 78 81 86 77 81 81 86 76 81 81 84 79 85	24 15 10 21 13 18 8 25 16 - 6 5 15 15 11 11 17 7 11 11 15 16 12 12 12 12 12 15 16	3. 41 1. 83 5. 60 2. 38 4. 23 3. 64 5. 05 4. 35 3. 07 6. 13 7. 80 6. 98 6. 98 6. 77 3. 08 5. 77 3. 08 5. 77 3. 08 5. 77 3. 08 5. 77 3. 08 5. 77 3. 08 5. 77 3. 08 5. 77 3. 08 5. 77 5. 05 5. 77 5. 05 5. 77 5. 05 5. 77 5. 05 5. 77 5. 05 5. 77 5. 05 5. 77 5. 05 5. 77 5. 05 5. 77 5. 05 5. 77 5. 05 5. 77 5. 05 5. 77 5. 05 5. 77 5. 05 5. 77 5. 05 5. 27 5.	-0.87 +0.55 +1.32 -1.90 -0.05 -0.64 +0.77 +0.07 -1.21 +1.85 +3.52 +2.70 +1.49 -1.20 +1.61 +2.75 -0.69 -0.65 +1.00 +0.93 -1.00 +0.93 +0.93 -1.00 +0.93	5.40 7.50 7.33 6.03 9.53 6.57 8.25 5.87 4.47 8.70 10.50 2.00 12.30 10.61 12.48 5.35 8.20 7.26 5.69 9.06 7.42 9.39	1.89 3.17 3.40 0.58 0.99 1.08 2.74 2.61 1.20 3.55 6.08 0.34 3.23 2.37 1.95 2.87 1.95 2.87 1.61 2.86 2.88 2.88 2.88 2.87 1.95 2.87 1.95 2.87 2.87 2.87 2.88 2.88 2.88 2.88 2.88	0 7.5 0.4 4.9 3.8 T. 0.2 1 0.3 0.5 0.4 T. 0.2 T.	12 10 8  12 10 7 8 11 3 12 10 6 8 10 9 9 6 8 10 8 10 9 9	15 12	66 988 887 117 77 127 77 77 127 77 77 116 111 14 14 14 15 7	1912. 1913. 1914. 1915. 1916. 1917. 1918. 1920. 1922. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1931. 1931. 1932. 1933. 1933. 1933. 1934.	48. 9 44. 6 48. 5 47. 3 52. 4 47. 5 42. 8 49. 4 52. 6 44. 8 52. 4 49. 3 57. 6 46. 2 46. 3 51. 6 47. 7 54. 3 48. 0	-5.3 +1.3 -3.0 +1.0 +0.9 -0.3 +4.8 -0.1 -1.8 +5.0 -2.8 +5.0 -1.4 +4.8 +1.7 +10.0 -1.4 -2.3 +4.0 +0.1 +6.7 +0.4	80 80 80 81 87 88 87 88 87 80 88 89 80 88 87 88 87 88 88 88 88 88 88	8 22 14 20 11 -2 11 17 8 19 14 11 13 19 12 20 0 0 5	5. 99 4. 50 4. 41 3. 15 3. 96 4. 11 1. 89 4. 73 4. 05 4. 73 6. 62 3. 54 1. 69 8. 99 8. 99 8. 99 1. 77 8. 74 8. 68 1. 77 8. 78 8. 83 1. 77 8. 83 1. 83 1. 83 1. 84	+1.71 +0.22 +0.13 -0.32 -0.17 -2.39 +0.45 -0.23 +0.45 -0.74 -0.45 -0.74 -2.59 -0.29 -0.04 +0.75 -0.54 +0.54 +0.54	9.20 8.85 9.49 7.38 6.86 8.35 7.26 6.99 9.68 10.54 6.25 3.05 5.70 7.57 9.51 11.42 3.93 4.63 6.32 7.20 6.32	2.39 2.39 1.69 1.00 0.60 0.80 2.38 1.72 1.26 3.23 0.70 2.70 2.17 2.65 4.07 0.22 0.38 1.02 0.38 1.06 0.41 0.60 0.60 0.60 0.60 0.60 0.60 0.60 0.6	5.8 T. 7.9 T. 0.7 0.7 0.1 T. 0.3 T. 0.2 T. T. T. T. T. T. T. 2 T. T. 0.3	8 8 9 6 8 8 8 7 10 8 9 10 8 8 7 7 7 6 9 9 9 11 1 4 6 6 10 10 7 8	15 12 12 15 17 14 14 14 14 12 12 8 14 15 15 15 14 10 20 15 12 9 15	5 4 6 6 6 6 7 7 7 4 5 7 8 4 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 12 10 7 6 7 7 10 12 10 9 12 10 9 9 7 9 11 13 4 7 11 13 8	2

Daily	Temperatures	for	February,	1934.
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							aily	T	emp	era	cure	28 1	or 1	-	rua	· y ,	100												-	
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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

M Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

W BO, Raleigh, 4-9 34-900

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

G. C. MERCHANT.

COLUMBIA, S. C., MARCH, 1934. VOL. XXXVII.

#### GENERAL SUMMARY.

Precipitation averaged slightly above normal, and temperature averaged considerably lower than normal.

Comparatively slow progress was made in spring plowing and soil preparation for planting due to the generally cold, wet weather, especially over the northern half of the State. In addition to the February freezes which killed practically all truck in the coastal section, further damage from cold occurred there the first part of the month to replanting and resetting: however, conditions were more favorable the latter part when corn, beans and white potatoes germinated well with fairly good growth; English peas and strawberries began to bloom by the 31st. Winter cereal growth was checked, but made fair progress the last half of the month; some oats are thin on account of previous freezes. Peaches, pears and plums began blooming about the 20th, and were in full bloom in the Piedmont section by the 31st. So far, no damage from frost has occurred to fruit. Cotton planting made good progress on the coast during the last week, and some corn was planted throughout the Section. Garden and Solar: None truck planting made little headway up-State. Tobacco and sweet potato beds improved, but transplanting did not begin. were about 10 days late over the State as a whole.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 42 stations, was 51.8°, or 2.8° below normal. The highest temperature was 85° at Ferguson on the 8th. The warm periods were from the 2d to the 8th, 17th and 18th, 21st and 22d, 27th and about the 31st, when daily mean temperatures ranged from 5° to 15° above normal. The lowest temperature was 10° at Caesars Head on the 11th. The cold periods were on the 1st. 9th to 16th, 19th and 20th, 23d to 26th and 28th to 30th, when daily mean temperatures ranged from 5° to 21° below normal. Freezes were general as late as the 12th, and at a number of stations up-State on the 24th.

#### PRECIPITATION.

The average for the Section, 53 stations reporting, was 4.28 inches, or 0.30 inch above the normal. Rains were confined mostly to three periods. Monthly amounts ranged from over 10 inches in mountainous sections to a little over an inch on the southeast Coast, with generally over 4 inches in

the northwestern portion, 3 to 4 inches in central, and frem 1 to 2 inches in the southern portion. The greatest monthly amount was 10.22 inches at Landrum; least monthly amount, 1.12 inches at Beaufort (near). The greatest 24-hour amount was 2.80 inches at Calhoun Falls on the 27th. The average number of rainy days was 9, normal 8.

Light snow fell over central and upper sections on the 10th, 11th and 20th, mostly flurries except from Laurens County northward; greatest 24-hour amount was 3.0 inches at Laurens on the 20th; average snowfall was (; 2 inch ever the State, which is the normal amount. Snowfall has been recorded throughout the State this month.

#### RIVER CONDITIONS.

The Saluda River was in moderate flood at Pelzer from the 4th to the 6th; at Chappells from the 5th to the 8th and on the 29th. Broad River: at Blairs on the 5th and 29th. Santce River: at Rimini from the 1st to the 12th, and on the 31st: at Ferguson from the 8th to the 13th. These were minor floods, and no damage was reported. The remaining streams of the Section were generally low, or at moderate

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 26; Columbia, 26, 27, 29;

Sleet (light) .- Bishopville, 11; Cherokee (near), 1: Columbia, 9, 10; Landrum, 20; Little Mountain. 10; Society Pastures were greening slowly. All vegetation and plantings Hill, 11; Sumter, 11; Trenton, 10; Wedgefield, 8; Winnsboro, 11.

Fog (dense) .- Charleston, 26; Crescent, 25; I andrum, 3, 26, 27; Little Mountain, 25; Mars Bluff, 26; Pelzer, 3, 5; Santuck, 26; Spartanburg, 26, 27; Trenton, 24, 26; Walhalla, 3.

January, 1934.—Ferguson, mininum temperature on 6th, page 4, should be 51, mean minimum temperature, page 4, 34.7, and the mean temperature, page 2, 49,2. Yemassee, minimum temperatures on 8th and 29th, page 4, should be 50 and 35 respectively. the mean minimum temperature, page 4, 40.2, and the mean temperature, page 2, 51.9.

#### PRESSURE, WIND, HUMIDITY AND SUNSHINE.

	Atn (red	osphe luced (	ric r to se	ressur a-level	e )		Win	ď.			elati: midi		age of sunshine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage c
Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Savanuah, Ga Wilmington, N. C Means and ex- tremes.	30, 16 80, 15 30, 15 30, 17 30, 16 30, 15 30, 17	30, 70 30, 61 30, 60 30, 70 30, 67 30, 67 30, 70	1	29, 61 29, 62 29, 62 29, 65 29, 58 29, 58 29, 53	4 19 19 20 19 19 20	9.5 7.2 11.6 13.4 8.8 11.9 10.7	30 24 27 35 27 31 29	nw. sw. sw. nw. sw. sw.	8 19 19 8 8 19 3	82 79 84 78 78 82 83	60 51 68 54 54 59 61	63 58 80 61 62 72 74	52 64 59 66 59 54 60

#### Climatological Data for March, 1934.

		-	i l	т	empera	ture, i	n degr	ees Fa	hr.		Precir	itation,	in incl	lies.	Num	ber c	of da	ys.	no	
stations.	Counties.	on, feet	Length of record, years.	Mean.	Departure from the norwal.	Highest.	Pate.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	With precipit on (0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Eastern Partion. Beautfort (mear) 3 - Bishopville Bish	Florence Horry Orangeburg Berkeley Sunter	21 224 296 48 1144 25 175 106 63 136 136 82 30 92 30 92 264 54 54 97 75 169 249 249 249	54 51 64 53 46 40 44 49 53 20 18 54 11 12 3 20 88 21 44 44 45 3 11 11 11 11 11 11 11 11 11 11 11 11 1	°57. 4 53. 4 66. 2 51. 4 55. 7 52. 1 54. 6 62. 0 °51. 8 °56. 0 52. 2 °51. 8 °56. 0 52. 2 °51. 8 °56. 0 54. 4 55. 7 55. 7 57. 4	-1.1 -1.3 -1.4 -2.2 -0.8 -3.2 -1.4 -3.7 -4.0 -0.6 -1.1 -4.3 -3.4 +0.2 -0.5 -0.5 -0.5	*80 82 83 77 82 84 84 84 85 82 83 83 83 85 85 82 82 82 82 85 84 85	18 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	*29 26 25 22 24 26 25 22 24 26 25 21	12 12 12 12 12 12 12 12 12 12 12 12 12 1	°43 45 42 27 49 47 46 46 47 °42 46 47 °42 48 47 44 45 48 45 48	1. 12 3. 94 1. 18 5. 57 4. 89 2. 59 3. 46 2. 90 3. 24 2. 21 3. 56 3. 46 2. 90 4. 89 2. 59 3. 42 4. 87 2. 53 4. 87 2. 53 4. 87 2. 58 4. 87 2. 58 4. 87 2. 58 4. 87 2. 58 4. 87 2. 58 4. 87 2. 58 4. 87 2. 58 4. 87 2. 58 4. 87 2. 58 4. 87 2. 58 4. 87 2. 58 4. 88	-2. 30 -0. 39 -1. 84 +1. 96 -0. 54 +1. 96 -1. 22 -1. 30 +0. 22 +0. 12 -1. 14 -1. 54 -0. 85 -1. 96 -0. 86 -0. 86 -0. 86 -1. 43 -2. 17 -1. 66 -0. 12 -1. 42 -1. 63	0. 47 1. 38 1. 14 0. 42 1. 12 1 1 03 0. 62 0. 96 0. 83 1. 24 0. 51 0. 72 0. 72 0. 72 0. 93 0. 32 0. 83 1. 24 0. 50 0. 72	T. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 8 8 9 9 9 9 6 7 8 9 7 9	14 15 14 10 10 22 15  14 12 17 11 16  16 17  15 17 11 19 14 19 14 19 11 11 11 11 11 11 11 11 11 11 11 11	9 5 11 6 0 2 4 9 3 3  6 2 10 2 10 10 10 10 10 10 10 10 10 10 10 10 10	8 11 6 15 15 14 11 11 12 12 14 10 11 11 12 11 10 11 10 11 11 11 11 11 11 11 11 11	ne.  Ne.  Ne.  Ne.  Ne.  Sw.  Sw.  Sw.  Sw.  ne.  ne.  ne.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews E. S. Weather Burenu. Roland D. Powe. Perry C. Quattlebaum. D. G. McKall. Win. B. (illespie, Henry C. Savage. H. K. Gilber, Fee Dee Experiment Sta. Mrs. Ellen Scott. Wr. R. Wells, Jr. R. Gas R. Davis. J. E. Bryan, Jr. U.S. Pisheries Station. Miss E. J. Ravenel Fitchugh L. Sweatman. Fitches G. Sweatman. E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Dept. W. Humpton Ramsey W. G. Hutson.
Alken Alken Anderson Balars Anderson Balars Cessars Head il H Calloom Fulls Camelen Chappells Counden Counden Colemon Fulls Counden Colemon Fulls Counden Colemon Cole	Anderson Furtheld in Art overlile, Art overlile, Art overlile, Art overlile, Art overlile, Art overlile, Art overlile, Art overlile, Art overlile, Art overlile, Art overlile, Art overlile, Spartanburg Edgefield Cilicrokee Greenville Greenwood Lamenster Corners Spartanburg Lamens Spartanburg Lamens Newberry Oconee Spartanburg Anderson Spartanburg Lamens Spartanburg Lamens Spartanburg Lamens Spartanburg Cocnee Farfield York extremes	690	31 31 33 42 58 42 35 41 85	46.6 50.5	-2.9 -4.7 -2.6 -2.9 -2.6 -3.4 -3.5 -3.9 -3.6 -4.6 -2.7 -3.5	82 77 77 79 79 80 79 80 77 78 87 77 78 80 87 77 77 78 80 87 77 77 78 80 80 80 80 80 80 80 80 80 80 80 80 80	18 † 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	28 20 10 20 21 14 19 26 18 20 20 20 21 17 18 21 14 24 25 17 21 21 18 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	†11 1 12	47 40 44 45 45 46 45 49 42 47 55 45 41 46 43 43 49 40 41 41 42 43 44 45 45 46 46 47 48 48 48 48 48 48 48 48 48 48	4. 20 5. 91 3. 26 4. 12 3. 11 7. 68 6. 24 2. 83 6. 26 6. 20 4. 44 2. 77 10. 22 11. 22 11. 22 11. 23 11. 24	+0.28	2.36 1.90 1.20 1.78 1.67 1.19 1.25 1.36 2.62 1.14 2.20 2.34 1.18 2.23 1.75 1.36 2.16 2.16 2.16 1.36 2.16 1.36 2.16 1.36 2.16 1.36 1.36 1.36 1.36 1.36 1.36 1.36 1	0.2 T. T.	9 12 10 10 5 11 13 6 13 10 15	19 16 15 10 17 17 16 17 15 20 15 14 18 19 19 12 8	0 0 2 0 5 4 5 5 7 7 6 9 9 2 2 7 7 1 5 4	10 10 11 11  6 9 11 9 10 12 8	1	Frank B. McGoy, H. H. Gussell. Sarah L. Owens, Cesar's Head-P. Mtn. Co L. M. Parker. Henry A. Brown. James C. Furls. William Spearman. Spartnulburg Water Works, Frof. F. H. I. V. Shoom. U. S. Weather Bureau. Duke Power Co J. C. Doscher. A. A. Foreman. Southern Tublic Utilities. Water R. Hall. M. M. Callionn. J. Narvin Bowers, Join W. Haunel. R. Hartwell Wilds, D. D. S. L. G. Roff. Miss Elberta Sease. Mrs. K. L. Burton, John H. J. Baxter. Earl J. Frick. B. B. Blease. W. O. Jeter. U. S. Weather Bureau. Mrs. S. E. Long. H. W. Hrandt, I. R. Goliver Johnson. W. T. Clawson.

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, intuit complete reports are used in Also on other dates. If the evident on late to be inclined in means are compared to the complete reports are used in the table indicate number of days missing; for example, b represents two days missing, etc. of Also on other dates. If the evident on late to be inclined in means are compared to the compared readings of the dry bulb; means are compared from observed readings, if Post-office addresses of these such as a follows: Of Arston San, Blacksburg; of Windford College, Rock Hill; of Ferguson, Entaw wille; of Cosma's Head, Green title; of Deaulor (near), Burton. Three pitation is less than 0.01 inch of rain or melted snow.

### Daily Precipitation for March, 1934.

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															1)	n y o	d m	outh															
Stations.	Drainings- University 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31															81	Total																
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Except us otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. Ill Precipitation measured in the nearling; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Ibreau station; precipitation is for the 24 hour period, midnight to midnight. \* Precipitation included in the next following measurement. Isoparute dates of falls not recorded. T. Trace, or less than 0.01 huch.

# COMPARATIVE DATA FOR MARCH.

									COM	PAR	AT	IVE	ι D.	ATA F	OR E	LARUE	1.										
		Temper:	ature			Prec	pitati	on		Num	ber	of Da	ıys			Tempera	ature			Prec	ipitati	on		Nun	ber	of D	ıys
Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip61 inch or more	Clear	Partly Cloudy	Cloudy
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# CLIMATOLOGICAL DATA.

No. 4

JUN 2 1 1934

SOUTH CAROLINA SECTION.

G. C. MERCHANT.

Vol., XXXVII. COLUMBIA, S. C., APRIL, 1934.

#### GENERAL SUMMARY.

Temperatures averaged somewhat above normal and rainfall was practically normal, for the State as a whole.

Following a rather cold March, the first eleven days of April were generally warm for theseason, but the remaining days of the month were mostly unusually cool with frequent rains, especially in the upper section of the State. Consequently, soil preparation and planting were considerably de-layed. The woods were not generally green until the 23d. being the latest average date since the spring of 1914. Cereals made good to excellent growth in northern portion and began to head the latter part of the month, but on account of insufficient moisture straw is short in the southern portion; rye was cut for forage after the 15th. Fruits made mostly good progress, but there was some local damage from frost in extreme northwest portion on the 21st; prospects, however, remain generally good. In the lower part of the State, cucumbers, watermelous and cantaloupes were planted during the first ten days; Irish potatoes, truck crops and gardens made fairly good growth up to the last few days when checked by drought; the asparagus crop began to move about the 15th, and strawberry harvests, sweet potato transplanting, cane and peanut planting progressed during the last week. Very little planting of corn, truck crops and veretable. northern sections due to wet soil and low temperatures. Cotton planting was practically completed in the southern nortion by the 25th, but some replanting was necessary on account of cool weather; progress in growth was only fair; chopping was begun on the coast. Comparatively little cotton planting was done in upper portion of State, with a delay of 10 days to two weeks due to unfavorable weather conditions. Pastures and meadows made excellent growth where there was ample moisture.

#### TEMPERATURE.

Florence No. 1 on the 4th. The warm periods were from the 1st to the 11th, 16th and 17th and on the 27th, when the daily mean temperatures ranged from 5° to 18° above normal. The lowest temperature was 25° at Caesars Head on the 13th. The cool periods were from the 12th to 14th, 20th to 26th, and 28th to 30th, when daily means ranged from 5° to 19° below normal. Freezing temperatures occurred generally in the northwestern portion as late as the 13th, with light to heavy frosts elsewhere, and as late as the 21st and 22d at a few places in the extreme upper portion.

#### PRECIPITATION.

The average for the Section, 54 stations reporting, was 3.03 inches, or only .01 inch below normal. Rainfall ranged from over 7.00 inches to 5.00 inches in portions of Barnwell,

Aiken and adjoining counties to less than 1.00 inch in portions of Horry, Georgetown and adjoining counties. Generally, amounts were near to somewhat above the average in the northwestern part of the State, and considerably below normal in extreme southern and eastern sections. The greatest local monthly amount was 7.60 inches at Blackville; least local monthly amount, 0.72 inch at Conway. The greatest 24 hour amount was 2.51 inches at Aiken on the 29th. Traces of average number of rainy days was 8, normal 7. sleet fell at Camden and Little Mountain on the 29th, and snow flurries were reported from Caesars Head on the 29th and Walhalla on the 11th.

Damage by Hailstorms. - Heavy hail occurred on the 17th about 4 miles southeast of Johnston about 4 p. m. Some stones were reported as large as three fourth inch diameter; the path was about one half mile wide and six miles long, direction from southwest. About \$15,000 damage is estimated in destruction of young peaches and the asparagus erep in this area, with no other damage of consequence. Light to moderate hail also occurred at Yemassee on the 8th, Santuck and Sumter on the 9th, Kershaw on the 15th. Blackville ard Trenton on the 17th, and at Greeville on the 29th; however, no damage was reported.

#### RIVER CONDITIONS.

The Santee River at Rimini was at, or slightly above flood stage several times during the month, and about flood

#### MISCELLANEOUS PHENOMENA (dates).

Fog (dense) .- Beaufort (near), 6, 7; Charlesten, C. 7; Garnett, 19; Landrum, 1; Mars Bluff, 18, 19; Santuck, 1; Spartanburg, 1.

Halos-Solar: Columbia, 11. Lunar: Columbia, 19. 24; Santuck, 22; Spartanburg, 26.

#### DEATH OF COOPERATIVE OBSERVER.

It is with much regreat the death of Mr. W. D. Cobb, Cooperative Observer at Caesars Head, on the 15th is an-The monthly mean for the Section, determined from reports of 42 stations, was 63.1°, or 0.8° above normal. The highest temperature was 92° at Cheraw on the 3d and at Head, also.

### PRESSURE, WIND, HUMIDITY AND SUNSHINE.

	Atr (re-	nosphe duced (	ric I	oressur a-level	e )		Win	d			elativ midi		of shine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage o
Asheville, N. C Angusta, Ga. Charleston, S. C. Charlotte, N. C. Columbia, S. C. Savannah, Ga Wilmington, N. C. Means and ex. }	30. 01 30. 02 30. 02 30. 01 30. 02 30. 01 30. 01	30, 39 30, 56 30, 52 30, 35 30, 35	29 30 29 29 30 30	29, 46 29, 49 29, 49 29, 86 29, 44 29, 55 29, 41 29, 36	12 11 11 12 12	8.3 6.9 11.7 13.0 8.5 11.8 10.7	27 24 30 35 24 31 31 31	nw. nw. ne. nw. w nw. w.	11 29 11 11 12 9	73 72 79 78 77 78 73 75	52 49	61 69 70	64 66 69 73

### Climatological Data for April, 1934.

					Clima	atolos	rical	Data	for	Ap	ril, 19	34.								
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Stations.		on, fee	Length of recognition	Mean.	Departure from the normal.	Highest	Date.	Lowest.		Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 nours.	Total snowfall, unmelted.	(0.01 in. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
Eastern Postion.  Bennfort (near) <sup>22</sup> .  BishopyTille BishopyTille Convertion Charleston	Florencedo	224 296 48	54 51 64 53 46 40 44 49 53 20 18 54 11 11 12 3 20 88 21 44 44 45 11 11 11 12 13 44 44 45 11 11 11 11 11 11 11 11 11 11 11 11 11	64.6 65.6 65.8 61.2 66.2 63.8 64.0	+2.3 +1.1 +1.3 +2.6 +3.1 +1.6 +2.3 +1.1 +2.8 +1.1 +2.8 +1.6	86 92 90 90 89 92 89 92 89	4 4 4 7 7 3 3 4 4 3 4 3 7 3 4 4 3 7 7 3 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	42 35 35 40 36 36 35 35 33 35 35 35 35 35 35 35 35 35 35	13 13 13 13 13 13 13 13 13 13 13 13 13 1	42 46 43 26 48 49 41 40 49 	1.06 1.14 1.72 2.03 1.72 2.03 1.58 1.58 1.75 0.99 1.07 2.56 1.51 1.21 0.95 1.73 1.87 1.87 1.45 1.45 1.73 1.87	-1,37 +4,29 -0,81 -1,05 -2,12 -1,131 -2,01 -1,131 -2,01 -1,130 -1,130 -1,25 -2,02 -0,10 +0,44 -1,132 -0,14 -1,132 -0,14 -1,132 -0,14 -1,132 -0,14 -1,132 -0,14 -1,132 -0,14 -1,132 -0,14 -1,132 -0,14 -1,132 -0,14 -1,132 -	0.68 0.74 1.99 1.93 0.65 1.42		10 11 4 5 5 7 6 6 5 5 8 8 8 8 8 9 9 9 9 0 0 0 0 0 0 0 0 0 0 0	18 17 13 16 14  15 15 15 17	10 5 9 5 5	10 8 8 9	W. W. W. W.	
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The departures from the normal temperature and precipitation are computed only for such stations as have tenor more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.
† Also on other dates. †† Received too late to be included in means and summaries. Tomperature from observed readings of the dry bulb, means are computed from observed readings. These choice addresses of these stations were as follows: Of caser and the days of the dry bulb.

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# COMPARATIVE DATA FOR APRIL.

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Orangeburg   Maximum Minimum Society HH 55.   Maximum Summerville 56   Maximum Minimum Sumter   Maximum Wedgefield   Minimum Wedgefield   Minimum Yennssee   Micdimum	79 46 80 45 85 45 80 45 80 48 82 45	53	54 90 55 89	88 57 91 55 90 54 90 58 88 69 89 55	85 61 65 62 71 59 88 58 80 58 81 57	82 59 84 56 85 58 85 54 82 58	84 61 86 59 89 59 87 60 85 60 89 58	82 64 80 60 81 62 81 59 78 59 88 63	73 59 73 59 75 59 71 57 70 57 75 58	79 51 81 49 79 51 79 50 78 48 80 48	84 57 85 57 85 57 85 56 88 57 86 57	46 63 58 84 47 85 46 78	62 37 61 34 62 35 61 35 61 84 64 35	40	58 79 48 68 50 75 52	53 60 62 58 58	79 61 83 82 68 82 61 78 61 82 62	70 61 62 54 76 63 76 55 72 55 80 63	78 7 58 5 77 7 64 6	2 68 4 48 4 74 68 89 65 68 65 64 69 60 40 72 62 68 40 65 65 42	40 74 40 78 42 74	77 56 79 45 77 58 77 58 78 54 80 52	75 57 78 56 85 55 76 55 74 54 85 58	71 57 71 54 85 57 75 56 70 56 77	79 45 81 88 84 46 79 40 80 47 80 47	86 59 88 51 87 57 58 87 57 89 60	53 66 49 62 57 84	48 64 45 61 47 64 48 62 49	68 53 74 46 69 50 51 52 51 55	77. 2 53. 7 76. 7 50. 1 75. 6 58. 6 78. 6 52. 0 76. 7 52. 8
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Greenwood   Maximum Minimum   Maximum Minimum   Maximum Minimum   Maximum Minimum   Maximum Minimum   Maximum Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Maximum Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum	8 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	56 85 55 85 85 85 85 85 85 85 85 85 85 85	59 86 55 5 5 5 5 5 6 6 6 6 5 8 5 5 5 6 6 6 6	60 713 733 8 56 8 56 8 65 8 76 8 76 8 76 8 76 8 77 7 77 8 8 8 76 8 76	75 52 78 59 79 55 81 56	79 58 84 63 79 55 81 60	75 75 75 75 75 75 75 75 75 75	68 54 68 55 68 56 68 57 56 69 57 50 69 57 50 69 57 50 69 57 50 69 57 50 69 50 60 50 60 60 60 60 60 60 60 60 60 60 60 60 60	77 48 77 78 46 77 78 46 80 49 79 75 48 45 78 45 78 45 78 46 47 78 46 48 48 48 48 48 48 48 48 48 48 48 48 48	81 52 82 55 58 82 58 88 55 58 84 54 56 80 52 83 55 82 83 84 85 86 87 86 87 87 88 88 88 88 88 88 88 88 88 88 88	75 43 76 76 41 78 76 41 78 77 52 98 77 76 44 45 76 46 77 76 47 77 76 47 77 76 47 77 77 77 77 77 77 77 77 77 77 77 77	59 59 55 55 56 57 57 58 58 59 57 58 58 58 58 58 58 58 58 58 58	72 38 70 71 71 73 74 74 74 74 75 76 76 77 77 77 77 77 77 77 77	72557148 771 48 771 48 771 49 692 644 771 49 672 444 771 49 672 49 673 49 674 49 675 49 675 49 677 49	78 559 579 579 579 579 579 579 579 579 579	79 55 56 75 75 75 75 75 75 75 75 75 75 75 75 75	68 56 56 51 66 51 66 51 66 51 66 51 66 51 66 51 66 66 67 68 68 57 68 57 68 57 68 57 68 57 68 57 68 57 68 57 68 57 68 57 68 57 68 57 68 57 68 57 57 57 58 57 58 57 58 57 58 57 58 57 58 57 58 58 58 58 58 58 58 58 58 58 58 58 58	50 69 58 68 56 75 58	69 5 40 2 67 5 54 3 71 4 68 6 68 5 60 6 65 6 69 6 69	1 703 403 703 8 83 703 41 703 703 703 703 703 703 703 703	51 77 55 54 75 55 55 78 48 72 47 76 52 75 54 76 59 76 59 76 59 76 76 76 76 76 76 76 76 76 76 76 76 76	77 57 74 55 78 57 69 51	76 49 66 48 68 48 68 71 48 70 48 72 89 69 62 75 75 70 75 75 76 77 76 77 76 76 76 76 76 76 76 76 76	44 79 47 78 36	82 57 86 50 85 55	48 65 50 67 46 61 48 72 65 48 64 47	58 44 58 46 67 57 54 60 64 64 64 64 64 64 64 64 64 64 64 64 64	66 42 48 48 48 48 48 48 48 48 48 48 48 48 48	50. 50. 722. 48. 650. 650. 650. 650. 650. 650. 650. 650

Reference letters (4, 5, 9), appearing in the table indicate number of days missing; for example, 5 represents two days missing, etc.
% Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. W BO, Raleigh, 5 25 34-900

# CLIMATOLOGICAL DATA

SOUTH CAROLINA SECTION

G. C. MERCHANT.

Vol., XXXXVII.

COLUMBIA, S. C., MAY, 1934.

GENERAL SUMMARY.

rainfall was 54% in excess of normal. The latter half of the

month was unusually cool and wet. Cotton planting did not become general over the northern half of the State until the first week, about two weeks late, and was practically completed by the 15th, fairly good stands the 24th, in a path about 1 mile wide and 3 mucs long. and fields were becoming grassy by the 31st. and eastern portions of the Section all crops suffered for rain until the 15th, reducing the strawberry yield, as well as that of early truck crops; pastures and meadows deteriorated greatly and grain headed short. However, over the Piedmont moisture conditions were more favorable for germination and growth of corn and minor crops, though plantings were late and much corn yet remains to be seeded; grain made generally good progress and began to ripen about the 20th. Heavy general rains after the 15th were very beneficial, corn making especially good growth; early vegetable production, tobacco and sweet potato transplanting became general during the third week, but prolonged rains halted farm work the last week, with fields getting grassy, and checking progress from and harvested grain, truck crops and peaches, especially to

maturing truck along the southern coast The other above, several times, with no damage reported. rivers of the Section averaged mostly about normal stages to somewhat above, with rises at the close of the month.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 43 stations, was 69.0°, or 1.9° below normal. The Hales—Solar: Charleston, 11; Column highest temperature was 96° at Cheraw on the 7th. warm periods were generally from the 3d to the 8th, and 19th to 22d, with daily mean temperatures ranging from 5° to 11° above normal. The lowest temperature was 40° at Caesars Head on the 1st and at Long Creck on the 3d. The cool periods were from the 16th to 18th, and from the 24th to the close, when daily means averaged from 5° to 17° below the normal.

### PRECIPITATION.

The average for the Section, 55 stations reporting, was 5.58 inches, or 1.96 inches above normal. The measurements ranged from over 3 inches to over 10 inches in practically all parts of the State; the greater amounts occurred in Colleton, Hampton and Jasper Counties, and in Newberry, Laurens and adjoining counties, with amounts ranging from 7 to 10 inches in places. The greatest monthly amount was 10.01 inches at Yemassee; least local monthly amount. 1.57 inches at Pinopolis. The greatest 24-hour amount was 5.20 inches at Yemassee on the 28th and 29th. The average num-

ber of rainy days was 9, normal 8 The mileting can fall was practically confined to the last 16 day

Tornado. - On the 16th, about is me near Santuck, Union County, in a path about 2 miles leaf No. 5 and from 50 to 200 yards wide, did alout : 150 demage to timber and wrecked 4 small outbuildings value at them gre-

Killed by Lightning .- On the 25th during the morning. Vera Williams, 14-year old daughter of Mr and Mr- W D Temperature averaged considerably below normal, and Williams, was instantly killed while standing on the porch of her home in Conway. On the 31st, Edward Powe, negro boy, age 14 years, was killed while standing in door of home. about 4 miles west of Cheraw

Damage by Windstorm, Hailstorms and Washing Rains - ( following; chopping and cultivation progressed in the southern portion. Cool, rainy conditions the latter part of the month were unfavorable for cotton chopping and cultivation.

On same date 12 to 14 miles north of Walhalla between Falcing In southern and Jocassee, heavy hail did much damage to young crops and fruit, the loss estimated about \$3,000. "About the same time, damaging hail was reported to have occurred in portions of Fairfield County, with damage of about \$5,000 erops and fruit. On the 28th and 29th, a gereral wirdstorn with heavy to excessive rains, extended over the Section; nest of the damage occurred from Orangelong and Aiken Counties southward to the coast, with about \$125,000 loss estimated to truck crops in this area. Ripening and shocked grain throughout the State also suffered considerable damage, the extent of which depends on subsequent weather conditions. At Charleston during this time a few yachts and small boats were sunk, or driven high into the marshes, damage estimated about \$6,000; damage of about \$1.500 to wharves, and about lack of cultivation. Considerable damage occurred from washing rains and high winds on the 28th and 29th to ripening Beach 5 houses were destroyed and 25 others damaged by the and harvested grain truck care and harvested grain truck care and harvested grain truck care and harvested grain truck care and acceptance. exceptionally high 9-foot tide, with loss estimated at \$11.(((: damage to buildings in the vicinity of Orangeburg estimated The Santee River at Rimini was in flood stage, or sightly at \$5,000. Some low lands were flooded, also, in northwestern sections, necessitating replantings

### MISCELLANEOUS PHENOMENA (dates)

Fog (dense). - Bishopville, 21; Catawba, 21, 31: Fratrick.

The Halos-Solar: Charlesten, 11; Columbia, 11; Spartan-the burg, 23. Lunar: Columbia, 22; Santuck, 22.

Atmospheric Dust.—Aiken, 13, 14; Beaufort, Blackville, 12; Camden, about 14; Charleston. 12, 13; Clemson College, 11, 12; Chappells, 12, 13; Columbia, 12, 14; Santuck, 11. 12; Spartanburg, 11, 12; Walhalla, 11, 14.

PRESSURE, WIND, HUMIDITY AND SUNSHINE

	Atn (red	osphe luced	ric p to se	ressur a-level	e.)		Win	d.			als ti midi		of
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage c
Ashevilla, N. C Augusta, Ga Charleston, S. C. Charlotte, N. C. Columbia, S. C Sayanmah, Ga Wilmington, N. C. Means and ex-} tremes	30, 01 29, 98 29, 98 80, 01 29, 99 29, 97 30, 00 29, 99	30, 46 80, 33 30, 35 80, 43 30, 39 80, 32 30, 39	1 9 1 1 9 1	29, 54 29, 31 29, 22 29, 47 29, 85 29, 17 29, 49	29 29 28 29 29 29 28 28 28	7. 2 6.3 12. 4 12. 2 7. 4 10. 8 10. 0 9. 5	20 24 53 32 26 89 30	e. nw. se. ne. nw. s.	16 28 28 29 28 29 28 26 29	76 77 70 71 88 89 80			74 70 72 66

#### Climatological Data for May, 1934.

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			record,		Temper	nture.	in deg	rees F	anr.		Preci	pitation,	in ine	hes.	Num	ber o	of di	ıys.	direction	
Stations.	Counties.	Elevation, feet.	Length of re	Меап.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	With precipit on (0.0) In. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing dire	Observers.
Eastern Portion.																1	1			
Beuufort (near)†† Bishopville Blnckville Charleston Cheraw	Beaufort	21 224 296 48 144	54 51 64 53	472. 0 68. 8 70. 8 71. 0 69. 8	-1.4 -2.2 -1.7 -0.6	492 90 92 89 96	† 5 † 5 5 7	454 49 50 56 45	28 18 18 17 18	<sup>4</sup> 31 36 27 26 39	5. 20 4. 49 7. 58 5. 41 5. 17	+2.08 +4.04 +2.41 +1.60	1.85 1.38 2.71 2.36 1.39	0 0 0 0	8 11 10 7 8	15 17 14 7	8 6 10 12	8 7 12	e. ne. e.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews U. S. Weatter Bureau. Roland D. Powe.
Conway Darlington Ethogium Ferguson[‡	Horry Darlington Florence Orangeburg	25 175 106 63	46 40 44 49	70.0 69.8 70.0	-0.7 -0.9 -1.1	98 94 94	† 6 5 7	50 47 49	† 9 18	36 37  40	4.74 5.67 3.06 5.88	+1.08 +2.02 -0.63 +1.80	I. 42 1. 95 0. 96 2. 10	0 0 0 0	9 8 8 9	22 12 	0 3 	9 16 8	se.	Perry C. Quattlelmum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
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Mars Bluff.  Myrtle Beach  Orangeburg  Pinopolis**  Rumini	Florence Horry Orangeburg Berkeley Sunter	92 30 264 54 97	12 3 20 88 21	69. 8 67.2	-0.9 -2.5	89 83	† 4 7	50 54	18 10	86	5. 68 6. 16 1. 57 5. 87	+2.68 -2.21 +1.58	2.60 1.34 0.45 2.00	0 0 0 0	7  9 9	13 14	5 0	13 17	n. se.	Joseph L. Shaw. J. E. Bryan, Jr. H.S. Eishertes Station. Miss E. P. Ravenel. Fitzhugh L. Sweatman.
Suciety Hill Summerville Sumter Wedgefield Yemassee	Darlington Dorchester Sumter Sumter Illumpton	192 75 169 249 21	44 37 13 44 46	69. 5 70. 6 69. 4 69. 0 70. 6	-0.9 -1.1 -1.9 -2.2 -1.5	94 94 92 990 92	† 5 7 † 5 † 5	53 46 *46 *51	18 † 1 18 †18 27	*88 *33 *11 *42 *38	3.50 2.78 4.49 5.93 10.01	+0.06 -0.71 +1.26 +2.61 +6.35	0.95 1.75 1.62 1.60 5.20	0 0 0 0	7 8 13 10 9	17 16 13 16 18	8 8 8 4	6 7 10 7 9	ne. s. ne. sw e	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Wuter Dept. W. Humpton Rumsey W. C. Hutson.
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Cutawbn Chappells. Cherokee (near) Clemson College Columbia	Vork Newberry Spartanburg Oconee Richland	562 402 758 850 351	43	66.8 68.7 69.7	+0.2 -2.2	89 88 89	7 † 4 5	45 47 50	1 3 18	42 41 32	4. 38 7. 39 4. 32 5. 97 3. 61	+0.77 +3.84 +1.95 +0.52	1. 13 1.62 1. 74 3. 50 1. 87	0 0 0 0	9 11 6 10 12	23 18 18	 8 2 5	 5 11 13	w. ne.	Jumes C. Farls. William Spearman. Spartanburg Water Works Prof. F. H. H. Calhona. U. S. Weather Bureau.
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Greenwood Heath Springs Kershaw Landram Laureus	Spartanbarg	1063	33 19 20	69. 4 67. 2 69. 0 67. 6 69. 0	$ \begin{array}{r} -0.9 \\ -2.3 \\ -0.6 \\ +0.5 \\ +1.0 \end{array} $	89 90 91 88 90	†19 7 7 7 19 † 4	49 45 46 49 48	27 27 †18 † 3 † 2	34 38 39 39 41	4. 02 3. 97 4. 28 6. 21 7. 78	+0.25 +0.77 +0.75 +0.62 +3.84	0.95 1.10 1.08 3.83 1.65	0 0 0 0	9 7	15 14 10 20 18	0 2 1 7 8	16 15 20 4 5	w. ne. e. ne. s.	M. M. Calhonn, J. Marvin Bowers, John W. Humel, R. Harlwell Wilds, D.D.S, L. G. Roff.
little Mouutain. Long Creek. Newberry Polzer Saluda Sautuck	Newberry Oeonee Newberry Anderson Saluda	502 850 586	31 31 31 33	68. 0 *65. 5 68. 6 67. 8 67. 8	-2.2	89 *86 89 89	† 4 † 5 † 5 5	44 40 48 47 45	27 3 27 17 † 2	88	6.71 5.73 7.90 4.90 6.86 8.83	+3,50 +4,24 +0,78 +3,88 +5,53	2,58 3,58 1,85 1,48 1,75 2,58	0 0 0 0 0	11 11 8	17 18 17  22 18	2 5 8  4 10	12 8 6  5 8	w. sw ne.	Miss Elberta Sease. Mrs. K. L. Burton. Joini H. Baxter. Earl J. Friek. B. B. Blease. W. O. Jeter.
Spartauburg Trentou Walhalla Winnsboro Winthrop College II	Spartanburg Edgefield Ocouee Fairfield York	. 620 . 1061 . 545 . 690	35 41 35 35	68.0 *69.8 67.2 *69.2 68.1	-1.8 +0.3 -1.3 -1.2	°90 91	20 25 23 † 5 19	50 149 43 148 46		40 °35 43	4. 58 6. 00 5. 25 7. 22 6. 39	+0,55 +2.74 +1.06 +8.70 +2.32	1.60 2.07	0 0	12 8 10 9	15	8 10 8 10 11	10 5	n.	U. S. Weather Bureau. Mrs. S. E. Long. H. W. Braudt. Rev. Oliver Johnson. W. T. Clawson.
Division means and Section means and	extremes			68.1		93 96	6 7	40	1	45 45	5.78 5.58	+2.10				6	6	1	ne.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete ruports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, eff. Also no ther dates, if Received too hate to be harded in means and summaries. \*\*Temperature data are from observed readings of the dry hulb; neares are computed from observed readings. If Post-office addresses of these stations are as follows: Of Gaston Shoat, Black-shurt; of Winthrop College, Rock Hill; of Pergason, Entawylle: of Cesar's Black, Green(Flie) of Demortor (near), Burton. Terepitation is less than 0.0 in or fair or melted show.

### Daily Precipitation for May, 1934.

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rlington	Peedee																1.32							.50 .						. 76	.06		3. 06
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# COMPARATIVE DATA FOR MAY.

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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

% Instruments are read in the morning: the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WEO.Raleigh, 6.25.74.960

# CLIMATOLOGICAL DATA.

SOUTH CAROLINA SECTION.

33

G. C. MERCHANT.

Vol., XXXVII.

COLUMBIA, S. C., JUNE, 1934.

No. 6

#### GENERAL SUMMARY.

The month was the warmest June since 1925, temperatures being especially high the last week. Rainfall averaged slightly above normal, for the State as a whole, most of which occurred the first 10 days, followed by scattered showers.

Heavy and prolonged rains the first part of the month extending from May 16th damaged crops and fields became grassy; hail did much damage locally. Corn planting and grain harvesting were delayed in northern portion; a considerable quantity of grain harvested between showers sprouted in the shock, and quality was reduced by generally unfavorable conditions. Sweet potato transplanting went forward and pastures made rapid growth; cucumbers and potatoes in southern portion were harvested under adverse conportions is mostly a failure in places. Grain threshing began generally about the 15th and was rushed to completion. Gardens, truck, tobacco, sweet potatoes, cane, peanuts and other minor crops, early fruits, vegetables and berries were stubble to late corn, peas and forage crops was also checked by hard, dry soil, and much of this work remained to be done. All crops, except cotton, deteriorated the last week. Cotton chopping and cultivation was resumed alout the 12th. but grass had made such head-way it was the end of the development of crops.

#### TEMPERATURE

The monthly mean for the Section, 42 stations reporting. was 78.9°, or 1.5° above normal. The highest temperature was 103° at Blackville on the 23d, and at Camden on the 30th. The first few days were rather cool, but daily temperatures thereafter averaged normal or above, with plus departures as high as 10° the last week. The lowest ten perature tures as high as 10° the last week. was 52° at Long Creek on the 14th.

#### PRECIPITATION.

The average for the Section. 54 stations reporting, was 4.92 inches, or 0.15 inch above normal. Rainfall was irregularly distributed, averaging generally above normal in northwestern counties and generally deficient in central and southern portions of the State. In portions of Oconee, Pickens, Anderson, Abbeville, Aiken, Laurens, Newberry, and Fairfield Counties monthly amounts ranged from 8 to over 12 inches in places, while in central and southern counties amounts ranged from one to 3 inches, except heavier in a few localities. The greatest monthly amount was 12.05 inches at Newberry, the greatest June rainfall of record for that sta-

tion; least local monthly amount, 1.04 inohes at Beaufort (nepr). The greatett 24-hour amount was 4.70 inches at Newberry on the 8th. The average number of rainy days was 10, the normal amount.

Killed by Lightning .- On 28th, afternoon, Peter Jackson, negro man, was instantly killed on farm of J. Warren Tinsley in the Trinity-Ridge section of Laurens County. Mr. Tinsley was injured at the same time.

Damage by Windstorms, Hailstorms and Lightning .- On 1st, in a path about one half mile wide in the northwestern, pertion of Winnsboro County, severe hail damaged crops about \$2,000; size, pigeon-egg. On same date at 3:30 p. m., in a path one and one half to two miles wide, one and one half miles northeast of Leesville, Lexington County, hail severely damaged crops, grain, fruits and gardens to the extent of \$10,000, or over; size of stones, about one fourth inch in diameter. Also on the 1st, about 5 p. m., in an area one mile wide in the Troy section of Greenwood and McComick Counties, hail damaged crops estimated at \$5,000, and a bain and water tank with about \$1,000 loss; size of largest stones, one half inch in diameter. Also, on the 1st, hail damaged crops ditions. Corn made good progress through the 20th, but deteriorated thereafter, and early corn in central and southern 3d, on a small area of Lee County, hail did about \$1.000. damage to crops. On 23d, windstorm wrecked a dwelling house at Winona, Florence County, damage about \$1,500, house belonging to Mr. Troy Legette who had a cow killed by lightning at the same time, with a loss of \$30; also several checked by drought and heat the last 10 days. Planting barns and homes in the vicinity were damaged, with less of about \$2,000 altogether. On 24th, 5:30 p.m., the grand stand in the Columbia Fair grounds was unroofed by windstorm, damage about \$2,000. On 28th, in Ebenezer community of York County, a thunderstorm caused minor damage but grass had made such head-way it was the end of the to outbuildings, telephone and power lines, and the farm month before fields were clean; weather was favorable for home demonstration building at the Fair grounds. Con age boll weevil activity the first two weeks. The first bloom was estimated \$1.000 altogether. On 8th, at 2:30 r.m., the reported from St. George on the 15th. 3 days later than the large barn of C. B. Parr. 5 miles north of Newberry, was average date; squares began to form in northern section the struck by lightning and fired, with barn and feed surf delast week; plants generally were small and about two weeks stroyed, damage about \$3,000. On 27th, 3 mules and 4 hogs late. As a whole, the month was unfavorable for growth and were killed by lightning on farm of Lewis Frierson, Lear Sumter, with loss of about \$400.

#### RIVER CONDITIONS.

Moderate floods in the Saluda, Santee and Peedee rivers mostly during the first half of the month, caused damage estimated as follows: Buildings, \$400; crops. \$21.200. Movable property saved by warnings estimated at \$13,500.

# PRESSURE, WIND, HUMIDITY AND SUNSHINE.

	(re	duced t	to se	a-level	e !)		Win	ıd			midi		of shine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage c
Asheville, N. C Augusta, Ga Charleston, S. C Charlotte, N. C Columbia, S. C Savannah, Ga Wilmington, N. C Means and ex- tremes.	29, 97 29, 96 29, 99 29, 96 29, 97 29, 98 29, 98 29, 97	30. 20 30. 19 30. 19 30. 22 30. 21 30. 19 30. 21	9 9 9 9 9 9 9	29. 67 29. 67 29. 69 29. 70 29. 70 29. 70 29. 67	18 15 15 18 15 15 15 19	5.9 5.5 9.7 10.2 6.8 9.1 9.4 8.1	25 21 25 34 25 30 26	n. nw. sw. nw. sw. e. s.	23 10 12 23 18 24 18	86 80 82 79 82 82 83	55 53 69 56 55 58 63	71 64 86 60 65 79 82	61 84 83 70 76 70 76

#### Climatological Data for June, 1934.

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			record.	T	empera	ture, i	n degr	ees F	hr.		Precip	itation.	in ine	hes.	Num	iber o	of de	ıys.	tion	
stations.	Counties.	on, fee	Length of rec	m.	Departure from the normal.	Highest.	ď	Lowest.	· ·	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	unmelted.	precipition	ar.	Partly cloudy.	Clouds.	Prevailing direction of white.	Observers.
		Elev	Len	Mean	Dep t	Hig	Date.	I.o.	Date.	Gre	Tot	Det	Оге	Total	With 1	Clear.	Par	Clo	Pre	(A) (A) (A)
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Beaufort (near)‡‡ Bishopville Blackviiie Charleston Cheraw	Beaufort Lee Baruwell Churleston Chesterfield	21 224 296 48 144	51 61 53	80.6 78.7 81.2 80.6 79.8	+1.6 +2.6 +1.7 +2.6	97 96 103 94 100	20 30 23 19 †29	65 61 63 66 60	1 3 1 1 20	29 29 34 20 39	1.04 3.63 2.84 1.68 3.88	-4.16 -2.63 -2.91 -1.30	0.38 0.75 1.28 0.53 1.22	0 0 0 0	6 10 7 8 9	17 17 18 12	11 12 12 12 12	2 1 0 6	s. sw.	Mrs. R. L. Litipp. William M. Reid. Mrs. Mariella S. Matthews. U. S. Weatsler Buream. Roland D. Powe.
Conway Darlington Ellinghum Ferguson!	16 leverations	25 175 106 63	46 40 44 49	79.7 79.7 81.2	+2 6 +2.7 +3.9	100 98	30 †23	61 62 59	† 1 2	31 32  38	5.57 4.71 3.40 1.34	$^{+0.30}_{-0.81}$ $^{-2.39}_{-4.21}$	1. 11 1. 45 1. 17 0. 55	0 0 0	14 9 6 6	20 10 	0 8 5	10 12  8	sw.	Perry C. Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1 Florence 2 Gamett Kingshee Marion	Florence	136 136 82 54 68	53 20 18 54 11	79.8 80.7 81.1 °81.0	+1.2 +1.9 +3.1	99 101 101 101 199	28 †28 †28 †23	60 61 59 °59	1 1 2 20	35 39 °88	4.41 3.82 1.06 3.93 1.91	-1.05 -1.64 -5.46 -1.36	2.30 2.30 0.48 1.57 0.97	0 0 0 0	111	17 17 15 17 11	6 6 10 3 17	7 7 5 10 2	SW- S. S. S.	H. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Mrs. Ellen Scott. W. R. Wells, Jr.
Mars Bluff Bridge Myrtle Beach Ornugeburg Pinopolis** Ruaini	Orangeburg	92 30 264 54 97	12 3 20 88 21	80, 0 76, 5	+1.8 +0.3	97 90	†23 30	61 62	1 1	29	3.36 3.30 2.20 3.89	-1.58 -3.57 -0.87	1. 20 0. 75 0. 60 1. 05	0 0 0	9	10 16	11 0	9 14	s. se.	Joseph L. Shaw. J. E. Bryan, Jr. U. S. Fisheries Station. Miss E. P. Ravenel. Fitzhugh L. Sweatman.
Society Hill Summerville Sumter Wedgesield Yennssee	Dorchester	192 75 169 249 24	44 87 13 44 46	<sup>b</sup> 80. 8 80. 1 79. 4 80. 3	+3.8 +2.6 +2.1 +2.1	<sup>b</sup> 101 99 97 99	†30 30 †23 23	60 60	† 1 † 1	33 34 33 34	7.52 2.70 2.77 2.77 2.87	+2.18 -2.98 -1.95 -3.30	2.38 0.81 0.*2 0.78	0 0 	9	16 16 20 14	8 9 	6 5  4 11	n. s. sw. sw.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Dept. W. Humpton Rumsey W. C. Hulson.
Division means and				80.1	+2.3	103	23	59	† 1	39	3.26	-2.12	2.28	0	9	15	8	7	S.	-00
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Aiken Audetson Blairs Cæsurs Hend ‡‡ Calhonn Falls Canden	Anderson Fairfield Greenville	527 764 293 3118 508 222	73 42 20 19 26 85	80. 4 78. 6 71. 1 78. 7 79. 2	+2.7 +2.8 +1.4 +1.4	98 100 	23 27  28 26 30	62 60 54 61 58	1 2 † 1 1	. 80 29 29 33 34	8. 48 7. 84 5. 26 7. 05 6. 21 4. 62	+3.81 +3.01 +1.25 +2.35 -0.08	4, 43 2, 47 1, 66 1, 61 3, 48 1, 90	000000000000000000000000000000000000000	12 10 10		1 0  6 16	12 9 14 5	e. w. ne. s.	Frank B. McCoy. H. H. Anssell. Sarah L. Owens. Gyde C. Clark. L. M. Parket. Henry A. Brown.
Cutawha Chappells Cherokee (near) Clemson College Columbia	York Newberry Spartanburg	562 402 758 850 351	29 30 7 43 48	76.0 77.4 80.3	+1.9 +2.2	98 98 99	28 28 28 29	56 60 68	 2 † 1 2	33	5. 03 7.24 5.46 5. 06 3. 30	+0.79 +3.52 +0.15 -0.87	1.83		9 11	20 12	5 7 7	5 11 8	W.	Jumes C. Faris. William Spearman. Spartanburg Water Works Prof. F. H. H. Calhonn. U. S. Weather Burein.
Crescent. Edgefield Ellenton Gaston Shonls [] Greenville.	Aiken	680 550 76 680 1089	8 22 3 82 51	78.2	+4.1	101	†26	58	· · · · · · · · · · · · · · · · · · ·		5. 25 5. 30 2. 42 5. 04 5. 07	+1.64 +0.60 +0.52	1.70	0	8 6 11		::: :::,			Duke Power Co. J. C. Doscher. A. A. Foreman. Southern Public Utilities. Walter R. Hall.
Greenwood Heath Springs Kershaw Landram Laurens	Kershaw	500	51 83 19 20 17	79. 3 77. 2 79. 4 76. 6 79. 4	+2.1 +1.0 +2.4 +1.8 +3.1	100 99 101 99 101	28 27 30 28 †26	61 56 61 57 60	4	36 34 88	6.71 .5.77 4.36 10.48 8.20	+2.78 +0.56 -0.52 +5.65 +3.92	1.88	1	0 9 0 15 0 14 0 9	10 6 15	0 7 4 11 4	13 20 4	w.	M. M. Calhoun. J. Marvin Bowers. John W. Hamel. R. Hartwell Wilds, D.D.S. L. G. Roff.
Little Mouutain Long Creek Newberry Pelzer Salnda Saintick	Newberry	711 1000 502 850 536 512	31 31 33	78.5 °74.8 79.0 78.8 .79.0	+1.0 +0.8 +1.2 +2.4	101 *97 100 98 102	29 27 †26 †26 28	58 52 61 61 59	1:	1 *87 2 32 34	5. 09 9. 88 12. 05 4. 65 3. 62 4. 60	+0.54	3. 25 4. 70 1. 14 1. 50		0 9 0 16 0 12 0 11 0 6 0 13	18	14	3	w.	Miss Elberta Sease. Mrs. K. L. Rurton. John H. Banter. Earl J. Frick. B. B. Blease. W. O. Jeler.
Spartauburg. Trenton Walladla Winnsboro Winlhop College 11.	Sparlanburg Edgefield Oconee Fairfield	620 1061 545	35 41	79.0 78.8 76.6 79.8 78.2	+1.9 +0.6 +1.9 +2.0 +1.8	99 101 99 102 101	26 30 †26 28 28	60 62 59 59 57	†	2 29 2 31 1 35 2 30 2 84	8.51 7.91 4.40	-0.83 +3.83 +3.33 -0.33	0.93 9 1.91 7 2.7 2 1.21	3	0 1: 0 1: 0 1: 0 1: 0 1:	1 18 4 15 1 6 4 18	20	4 8 8 6 4 6 2 7	8 s. sw. sw. sw. s.	U. S. Weather Burean. Mrs. S. E. Long. H. W. Brandt. Bev. Oliver Johnson. W. T. Clawson.
Division means and		1		. 78.0	+1.4	103	30	50		4 37			1		0 1	0 14		8 8	8 W	
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in deparatining section or division means. Releavence letters (6, 9, 9), appearing in the table indicate number of days missing, to example, b represents two days missing, etc. Also on other dates, if Received to hate to be included in means and summaries. Tenumerature date arms of real readings of the dry bulb; means are computed from observed readings. If Post-office addresses of these stations are as follows: Off action? Bloods, Black of Castard Plant, of Received from the arms of Castard Plant, and the proposed from th

Daily Precipitation for June, 1934.

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Except as otherw	ise indicated, of	serv	atio	ns a	re ge	nem	lly m	ade	late	in t	he v	fter	11001	i, ne	ar s	unse	t, an	d pr	ecip	itati	Oll I	ecor	wed	15 fC	real	e 24 i sta	tion	rs e	ecipi	tatio	n is	for 1	he

Except as otherwise indicated, observations are generally anode late in recorder from the afternoon, respectively the control of the preceding 24 hours, \*\*ethicine confide for the 24 hours ending at those distances and the stations; prediction in the control of the preceding 44 hours, \*\*ethicine for the preceding at the control of the preceding at the control of the preceding at the control of the preceding at the control of the preceding at the control of the preceding at the control of the preceding at the control of the preceding at the control of the preceding at the control of the preceding at the control of the preceding at the control of the preceding at

COMPARATIVE DATA FOR JUNE

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Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest	Least	Average	Precip61 inch or more	Clear	Partly Cloudy	Cloudy
1887 1888 1889 1890 1890 1892 1892 1893 1891 1895 1897 1896 1897 1896 1897 1990 1990 1901 1908 1908 1909 1909 1909 1909 1909 1910 1911	77. 9 78. 1 74. 4 80. 9 79. 3 75. 1 76. 5 77. 9 78. 2 77. 7 78. 2 76. 2 77. 7 78. 9 78. 4 76. 6 79. 2 76. 6 78. 9	+0.5 +0.7 -3.0 +3.5 +1.9 -2.3 -0.9 -0.4 +0.3 +0.5 +1.8 +2.0 -1.2 -0.7 +1.1 -3.2 -0.4 +1.5 +1.0 -0.9 +1.8 +1.9 -0.8 +1.8 -1.9 +3.5	107 102 99 103 99 96 105 105 105 105 105 105 105 105 105 97 102 105 99 100 105 98 100 98	44 51 39 56 53 53 51 50 52 48 52 48 52 48 52 48 43 50 48 50 50 50 50 50 50 50 50 50 50 50 50 50	3. 53 2. 73 5. 10 2. 41 3. 20 5. 25 7. 64 3. 91 3. 91 3. 89 7. 94 6. 55 4. 48 8. 09 4. 06 1. 92 8. 89 2. 4. 90 6. 87 7. 77 7. 78 3. 42	-1. 24 -2. 04 +0. 33 -2. 36 -1. 57 +0. 86 -1. 73 +0. 65 +0. 67 -0. 62 -0. 88 +3. 17 +1. 78 -0. 29 +3. 32 -0. 71 -2. 85 +4. 11 +1. 15 +0. 13 +2. 10 +3. 10 -1. 13	5. 54 6. 43 7. 84 5. 71 7. 96 11. 91 16. 50 9. 20 7. 04 10. 45 11. 75 15. 43 11. 92 8. 11 18. 42 11. 17 6. 30 9. 10 12. 38 9. 10 12. 38 9. 10 12. 89	1. 83 0. 71 2. 29 0. 72 1. 12 2. 73 2. 32 2. 0. 25 0. 25 1. 82 1. 88 4. 15 3. 4. 15 3. 4. 15 0. 55 0. 17 4. 28 2. 22 1. 08 1. 68 1.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 8 8 12 12 8 8 14 12 9 14 8 6 6 12 10 9 12 13 8	10 13 13 11 10 17 14 4 9 9 15 11 18 6 6 13 12 13 10 10 10 11 11 14 14 15 11 11 11 11 11 11 11 11 11 11 11 11	11 12 13 12 13 10 10 15 12 10 10 10 7 144 8 13 13 14 11 12	9 5 4 7 7 7 3 6 6 11 9 5 5 9 5 10 9 5 5 4 6 6 9 4	1912 1913 1914 1915 1916 1917 1918 1919 1921 1922 1923 1924 1925 1926 1927 1928 1929 1928 1929 1931 1933 1933 1934 1934	75.5 76.2 81.1 76.0 76.4 77.0 77.0 77.0 78.2 77.1 780.4 77.2 74.9 76.0 74.8 75.1 77.6 78.9 77.4	-1.9 -1.2 +3.7 -1.4 -1.0 -0.5 -0.4 -1.0 0.0 0.0 +1.8 +0.3 -0.3 +1.3 +3.0 -0.2 -2.5 -1.4 -2.6 -2.3 +0.4 +0.2 +1.1	101 105 108 100 102 106 101 105 103 101 104 105 104 102 100 104 106 103 106 103 106	48 40 50 49 48 43 50 52 50 52 49 52 49 46 52 49 48 47 48 47 46 48 47 48 48 47 48 48 48 48 48 48 48 48 48 48 48 48 48	5. 68 5. 53 3. 80 4. 26 5. 12 4. 49 5. 97 3. 41 5. 48 2. 31 5. 12 3. 09 4. 41 5. 5. 73 4. 40 2. 21 6. 30 2. 74 4. 92 4. 77	+0. 91 +0. 76 -0. 97 -0. 51 +0. 35 -0. 28 -1. 33 +1. 20 -1. 36 -1. 96 -0. 71 -2. 46 +0. 71 -2. 46 +0. 81 +0. 90 +0. 81 +0. 90 +1. 53 -0. 37 -2. 26 -1. 53 -0. 37 -2. 26 -1. 53 -1. 54 -1	8, 92 12, 05 7, 67 9, 68 9, 76 10, 10 7, 69 11, 99 6, 57 1, 76 13, 02 7, 93 10, 72 11, 68 7, 67 6, 69 13, 83 6, 69 13, 83 10, 12 11, 12 11, 12 11, 13 11, 14 12, 14 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	2. 44 1.96 0.26 1.24 1.76 1.33 0.27 1.49 0.76 0.33 2.20 0.55 1.04 T. 0.90 2.71 2.46 2.27 0.11 2.27 1.04 T.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 12 8 9 11 18 7 7 10 6 6 6 6 11 8 8 10 10 6 6 11 10 6 6 11 10 10 10 10 10 10 10 10 10 10 10 10	13 15 14 12 16 15 11 19 15 14 16 13 14 11 19 13 13 14 19 10 17 17 15	7 9 12 10 11 10 9 9 7 11 11 19 9 10 7 7 8 8 9 8 7 7 8 11 9 8 8 11 1 9 8 1 10	10 6 4 6 7 4 6 10 4 4 5 5 8 6 12 13 8 9 9 9 4 7

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Reference letters (a, b, c), appearing in the table indicate number of days missing: for example, b represents two days missing, etc.

\$\frac{\pmaths}{2}\$ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 7 27 34-96.

# CLIMATOLOGICAL DATA.

# SOUTH CAROLINA SECTION.

33

G. C. MERCHANT.

Vol. XXXVII.

COLUMBIA, S. C., JULY, 1934.

No. 7

### GENERAL SUMMARY.

The mouth was unusually warm, and rainfall averaged considerably below normal.

Substantial local showers occurred at most places in the northern half of the Section throughout the month, but rainfall was insufficient in the southern portion. All erops made mostly good growth and progress, except in dry localities. Rains were too late to benefit materially early corn in many places, and truck and vegetable crops likewise were damaged by drought and prolonged heat along the southern coastal plain. Late corn, forage crops, sorghum cane, sweet potatoes and minor crops made favorable advance in moist areas. There was a poor crop of commercial cantalouses. While planting stubble land to late crops was considerably delayed, mostly good stands were to be had at the close of the month. Tobaceo euring was well under way by the 31st, and threshing of grain was practically finished by the 20th. Cotton made generally good advance with the warm weather, and was well cultivated, though plants still continued rather small for the season; blooming and fruiting were satisfactory, and the first open boll was reported near Blackville on the 27th, the average date; about the normal amount of shedding occurred.

River stages were generally normal To Melow during the month.

### TEMPERATURE.

The monthly mean for the Section, from reports of 42 stations, was 82.2°, or 2.4° above the normal. It was the warmest July since 1887, with the exception of 1932, 82.6° average, and 1931 with 82.2°. The highest temperature was 106° at Trenton on the 20th, and the lowest temperature was averaged 5° to 10° above normal from the 1st to 6th, and from the 18th to 28th. At no time did the average temperature drop to as much as 5° below normal.

#### PRECIPITATION.

The average for the Section, 54 stations reporting, was 4.46 inches, or 1.34 inches below normal. Distribution was poor, amounts ranging from 9.53 inches at Ellenton, Aiken County, to 1.43 inches at Garnett, Hampton County. Less than 3.00 inches fell in extreme southern counties, while in sections of Horry, Hampton, Greenwood, Aiken, and Coence

Counties, 7 to over 9 inches were reported. The greatest amount during any 24 hours was 4.59 inches at Clemson College on the 9th. The average number of rainy days was 11, the normal amount.

Killed, Injured and Damaged by Lightning.—19th, S. M. Thompson was killed near Mullins and his young son severely shocked; 18th, J. L. Dickerson, 117th Field Artillery, Alabama National Guard, was killed at Camp Jackson, and several others were shocked; 20th, Methodist chunch at Jefferson, Chesterfield County, was struck and damaged by fire resulting, estimated at \$1,000; 19th, mule barn at Celen's Pedigreed Seed Co., Hartsville, struck and fired by lightning, damage about \$2,000; 7th, 2 cows were killed belonging to S. D. Dunn, near Winnsboro, loss about \$50.

Death from Heat Prostration.—Jerome O'Brien, a baker, at Charleston on the 21st.

Killed, Injured and Damaged by Windstorm.—21st, A. R. Thrift was killed at Pacolet and 25 others were shocked, late afternoon during a ball game, wind unroofing stand and carrying with it some protective wiring which came in contact with a small power line, the current being carried into pillars of the stand on to water on ground from heavy rain into which the persons stepped. Damage to stand, estimated \$100.

. Damage from Hailstorm.—18th, in the Aynor-Jordanville, Zoan and Red Bluff sections of Horry County from 3 to 5 p.m., in a path 2 miles wide, heavy hail damaged croff-principally tobacco, to the extent of about \$18,000; some of the stones were one half to three fourth incl diameter. Light to moderate hail, also, was reported from Plackville on the 21st, and from Camden on the 17th, with little or rodamage.

### MISCELLANEOUS PHENOMENA (dates).

Halos-Lanar: Charleston, 23; Columbia, 23, 25, 26, 31. Solar: Columbia, 13.

Fog (dense).—Cherokee (near), 25; Santuck, 11; Spartanburg, 12, 29.

PRESS	URE	, wi	ND	, HU	WII	YTIC	ANI	D SU	NSI	111	E,		
	Atn (red	nosphe luced (	rie j to se	oressur a-level	e 9		Wir	ıd		Re	elati midi	ty	ge of sunshine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage
Asheville, N. C., Angusta, Ga, Charleston, S. C. Charlette, N. C. Columbia, S. C., Savannah, Ga, Wilmington, N. C. Means and ex-}	30. 01 80. 00 30. 01 30. 00 30. 00 30. 01 30. 01	80, 26 30, 22 30, 23 30, 25 30, 26 30, 22 30, 24	9 10 9 8 9	29. 80 29. 78 29. 79 29. 78 29. 79 29. 81 29. 70	13 13 13 13 13 18 13 14	5. 8 5. 9 9. 9 9. 4 6. 7 9. 8 9. 1	80 21 27 45 25 35 30	n. w. e. ne sw. se. s.	25 29 22 21 27 19 30	89 81 81 81 82 80 83	58 53 69 58 60 56 66	75 69 83: 72 73 76 81	61 81 77 64 78 69 73
tremes	20 01	30.26	q	29 70	14	8 1	45	ne.	21	82	60	76	71

#### Climatological Data for July, 1934.

	Climatological Data																			
			record,	T	empera	ture, i	n degr	ees F	ahr.		Preeir	itation.	in inc	hes.	Nun	bero	of da	ıys.	direction md.	
stations.	Counties.	on, feel	Length of rec	Меан.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	With precipition (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direct	Observers.
Eastern Portion.	1	Ĭ	1		1	1	1				- 1									
Beaufort (near);; Bishopville Blackviiie Charleston Chernw	Beaufort	21 224 296 48 144	54 51 64 53	83. 9 81. 2 83. 6 83. 9 83. 0	+2.5 +2.4 +2.5 +3.1	103 97 104 98 101	21 17 †14 20 †16	70 70 69 73 68	11 † 2 † 5 12 27	28 25 33 20 30	1.50 5.72 5.22 2.35 5.34	-4.71 -0.38 -4.54 -0.68	1,00 2,10 2,00 0,76 1,42	0 0 0 0	5 13 11 9 8	19 10 2 	17 11 21 22	3 1 0 7	s. sw.	Mrs. R. I., Fripp. William M. Reid. Mrs. Mariella S. Matthews U.S. Weather Bureau. Roland D. Powe.
Conway Darfington Effingham Ferguson#	Horry Darlington Florence Orangeburg	25 175 106 63	46 40 44 49	82.6 *83.4 	+2.7 +3.5 +4.4	101 *103	17 21 17	69 69 62	10 10 	30 *31 	7.02 2.19 2.73 2.68	+0.41 -3.32 -3.38 -4.20	1.65 0.87 0.78 1.39	0 0 0	16 9 10 7	25 22  23	1 8 6	5 1 2	sw.	Perry C. Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savuge.
florence 1 Florence 2 Garnett Klugstree Marion	Florence	136 136 82 54 68	53 20 18 54 11	83.0 683.8 81.4 83.6	+1.7 +2.7 +4.0	101 h105 105 n104	†14 16 14 †14	69 68 68	† 8 9 † 4 10	31 **36 **33	4.03 4.06 1.48 3.76 5.29	-1.81 -1.78 -5.81 -2.76	1. 20 1. 43 0. 41 1. 00 1. 95	0 0 0	7 9 13	20 19 7 16 9	4 11 23 4 21	7 1 1 11 11	sw. s. s. s.	H. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Mrs. Ellen Scott. W. R. Wells, Jr.
Mars Bluff Bridge Myrtle Beach Orangeburg Pinopolis** Rimini	Florence	92 30 264 54 97	12 3 20 88 21	83.1	+2.9	102	17	70	† 5	30	5. 10 3. 66 3. 30	-2, 98 -3, 80	1.58 1.06 0.80	0 0	11	12	14	5	sw.	Joseph L. Shaw. J. E. Bryan, Jr. 11. S. Fisheries Station. Miss E. P. Ravenel. Fitzhugh L. Sweatman.
Soriety 11ili Summerville Sumter Wedgeheld Vennasspe	Darlington Dorchester Sumter Sumter Hampton	192 75 169 249 24	14 37 13 44 46	*83.2 83.2 82.6 82.2 83.3	+3.6 +3.3 +2.9 +2.8 +2.7	b103 101 101 101 103	15 15 17 †17 25	68 68 68 69 67	27 † 9 10 † 2 5	<sup>b</sup> 33 29 29 30 33	6.44 2.53 4.13 3.01 3.45	+0.05 -4.49 -0.96 -2.07 -3.80	2.32 0.58 1.38 1.48 1.05	0000	14 12 6	16 18 8 25 24	11 9 18 5 4	4 4 5 1 3	n. s. s. w.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Humpton Ramsey W. G. Hutson.
Division menus and	extremes			83, 2	+3.0	105	†14	62	10	38	3.86	-2.56	2.32	0	10	16	12	3	sw.	
Western Portion.																			T X	
Aiken Anderson Bairs Casars Hend‡† Calhonn Falls Camden	Aiken Anderson Fairfield Greenville Abbeville Kershaw	527 764 293 3118 508 222	78 42 20 19 36 85	83. 4 80. 6 74. 1 82. 6 84. 6	+3.3 +1.1  +2.6 +4.3	101 98  93 102 103	†14 16  25 †17 †16	69 67 60 61 70	31 13 † 7 12 † 4	31 30 31 36 32	1.82 5.40 4.03 4.10 5.19 5.31	-3.25 +0.21 -1.20 -0.05 -0.06	0. 62 1.45 2. 12 0. 78 1. 49 1. 52	0	13 9 16 8	20 22  5 6	3 1  9 13	8 8 17 12	s. w. ne. s.	Frank B. McCoy. H. 11. Russell. Sarah L. Owens. Clyde C. Clark. L. M. Parker. Henry A. Brown.
Catawba Chappelis. Cherokee (near). Clemson College Columbia	Owner	562 402 758 850 351	29 30 7 43 48	80. 4 80. 6 82. 7	+2.4 +1.8	98 98 101	†17 †21 21	66 67 69	 16 † 7 6	32 29 27	4, 91 5, 09 4, 83 7, 75 4, 27	-0.90 -0.13 +2.59 -1.08	1.99 2.18 1.69 4.59 0.88		11 8 16	28 3 6	8 15 22	0 13 3		Jumes C. Faris. William Spearman. Spartanburg Water Works Prof. F. H. H. Cathom. U. S. Weather Bureau.
Crescent	Aiken	630 550 76 680 1039	8 22 3 32 51	81.6	+4.7	100	21	67	31	29	4.97 5.36 9.53 2.76 2.92	-0.67 -1.89 -2.44	1.60 1.31 3.30 0.86 0.53	0	8 9 7 7 17		15	6	sw.	Duke Power Co. J. C. Doscher. A. A. Foreman. Southern Public Utilities. Walter R. Hall.
Greenwood	Kershaw Spartmburg	568 500 1063 589	51 33 19 20 17	81.7 79.6 81.8 81.6 83.0	+2.2 +0.5 +2.4 +4.1 +3.6	100 96 99 101 101	†16 21 † 1 22 25	67 65 68 66 67	1 9	28	6.58 5.28 6.71 4.84 3,88	+1.37 +0.27 +1.15 -2.00 -1.29	2.06 1.25 2.64 1.82 1.05		11 13 10 10 10 10	12 12 25	19	15	w. w. w.	M. M. Calboun, J. Marvin Bowers, John W. Hamel, R. Hurtwell Wilds, D.D.S, L. G. Roff.
Little Mountuin Long Creek. Newberry Pelzer Saluda Santuck	Oconee Newberry	711 1000 502 850 536 512	31 31 33	81. 2 78. 1 82. 7 82. 0 82. 6	+1.2 +2.0 +2.0 +3.0	103 101 103 100 101	16 21 17 17 †16	61 61 68 68 67	9	38 32	4, 49 4, 46 4, 49 5, 00 5, 20 5, 61	-0.51 -0.22 -0.35 +0.13 +0.52	1.25 1.28 1.25 1.16 2.00 2.06		0 10 0 11 0 10 0 14 0 8 0 12	13	17 5 26	i i	w sw.	Miss Elberta Sease. Mrs. K. L. Burton. John H. Baxter. Earl J. Friek. B. B. Blease. W. O. Jeter.
Spartanburg. Treuton Walhaffu Winnsboro Winthrop College ##.	Spurtanburg Edgefield Oconee Fairfield	82 4 620 1061 545 690	42   35   41	81. 6 83. 6 80. 3 82. 7 81. 8	+2.6 +3.5 +3.1 +2.9 +2.4	99 106 102 102 101	†21 20 21 †16 21	68 68 65 68	11	36 2 36 3 31 1 32	3.56 6.11 3.22	-2.40 +0.99	0.90 0.88 1.50		0 14 0 15 0 15 0 15 0 15	9 3 12 3 2 4	27 25	5 5 5	se. sw. sw.	U. S. Weather Bureau. Mrs. S. E. Long. 11. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division menns and				81.4	+2.1	106	20	60			1101				0 1	1	1			
Section means and	extremes			82.2	+2.4	106	20	60	† †	7 38	4. 46	-1.34	4. 59	,	0 1	1 14	13	2	sw.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. falso on other dates. If Received too late to be included in means and summaries. Temperature data are from observed readings of the dry bubly; nears are computed from observed readings. However, of these stations are as follows: Of daston Shoals, Blackburg; of Windrop College, Rock Hill; of Ferguson, Entawville; of Cesar's Head, Greenville; of Beaufort (near), Burton.

The observable of the departure of the station of the departure of the

Daily Precipitation for July, 1934.

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Stations.	Drainage- bastas.	1	2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	28	21 2	25	26	27	28	29	80 8	Total	
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ngstree     urion ars Bluff Bridge grtle Beach angehurg nopolis	Black			.13	.32 .20 .60	. 05		т.			. 15	.41 .30 .20	. 42							1.58	.53 .28 T.					, 92 , 45		. 96	.40 .02 T.	. 02		20 8 19 8	3, 76 5, 29 5, 10 3, 66
nthi      ciety 11i1      mmeryille      mter edgefield massee	Santro Peedee Ashley Wateree do	1111	. 60 1,00 .58 1,38	.40 .20 .07	. 37			.02		+ 00	.29	2.32 .44 .14		90											Ť	.02		.10 1.48 .05 15 .85	.02	.7	.16	08	3,80 6,44 2,53 4,13 3,01 3,45
Western Portion, ken derson uirs      wars Hend dbonn Fulls      unden	Edisto	.01	1 40	. 15	. 41		.07	.16	.39	.13 .24 .78 T.	.06		.18	. 48 T.		08				. 31 1. 45 . 46 3 . 08						.09	. 69	.45	.14	.10		24 10	1.82 5.40 4.63 4.10 5.19 5.31
thavba      	Catawba Sahida Brond Sayamah Congaree	.0		.12	. 46					. 88 . 45 . 11 . 21	. 03	1. 69 . 56				4	2			2.18 .88 4.59	0.08	T.	.46		Ť	.99	.38	.12	. 46	. 29 . 10 T.	. 10 .		4.91 5.09 4.83 7.75 4.27 4.97
lgefield       lenton   usion Shonts         reen ville         reen wood         enth Springs	Savannah Savannah Broad Saludadodo	; i:	2	. 48	. 60				. 09	1.75	. 06		. 1	2		:			T.	3, 3	1.3	1			1. 10 .86 .31 1. 31		.74	2.67		.07	1.14 . .18 . .05 . .26 . .58 .		5.26 9.13 2.76 2.92 6.58 5.28
erstiaw	Lynches		т.	.31	. 3-	01		.26	1.82	.21	. 11	2.6 .8 1.0	1 .0	 4 9	2	0			1	1	3 .0	3		T.	.15	.09	1.34		1 .86	. 12			6.71 4.84 8.88 4.49 4.46 4.40 5.00
alada naturek partanburg      renton 'alhalla 'linushoro      'intbrop College	do Broad do Edisto Savuntah Broad Catawba		T 1. 2	9 . 0	2	2	. 39	T. 3	1.78	. 45 2. 06 . 08 . 05 . 10	. 5 . 2 . 3 . 0 . 1 . 1 . 3 . 5	5 8 1.2 .1 3 .8 5 1.5 .2	3 5 8 . 4	5	6		i	4	2.0	0 2 .8 2 .0 2 .9 1 4 .5	3 2 .3 0 7 8	1	.06	.20	0 . 02 . 11 . 45 . 02	.15	T.	T.	5 . 25 4 . 05 58 58 	18	.16 .18 .55 .12 .00	T. 42	5 20 5. C1 4. 15 3. C7 8. E6 6. 11 9. 22

Except as otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of observation. IIII Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Burean station; precipitation is for the 24 hour period, midnight to midnight. \* Precipitation included in the next following measurement. The parate dates of fulls not recorded. The Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR JULY.

		Tempera	ture			Preci	pitatio	n		Num	ber (	of Da	ys			Tempera	ture			Prec	ipitati	on		Num	her o	f Day	7S
Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip01 inch or more	Clear	Partly	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precip01 inch or more	Clear	Partly	Cloudy
1887 1888 1890 1890 1890 1891 1892 1893 1895 1895 1895 1895 1896 1990 1991 1993 1994 1996 1997 1998 1999 1999 1999 1999 1999 1999	82.0 78.9 79.5 78.4 77.9 82.0 77.79.5 80.7 80.0 80.0 80.0 81.2 81.4 80.4 79.4 81.4 79.4 81.4 79.8 78.6 79.4	+2. 2 -0. 9 -0. 3 -1. 4 -1. 9 -0. 9 +2. 2 -2. 1 -0. 3 +0. 9 +0. 4 +0. 2 +1. 4 +1. 6 -0. 4 +1. 6 -1. 4 -1. 4 -1. 6 -1. 9 -1	110 108 102 104 102 104 100 102 105 107 102 105 104 102 107 103 105 101 100 100 101 100 101 101 101 100 101 102 104 102 104 104 102 104 104 105 107 107 108 108 108 109 109 109 109 109 109 109 109 109 109	60 53 51 52 56 51 60 554 51 54 54 57 55 62 58 45 56 56 56 56 56 56 56 56 56 56 56 56 56	7. 49 3. 68 7. 13 6. 89 7. 44 3. 87 8. 24 4. 17 8. 17 7. 81 4. 08 4. 08 4. 52 3. 59 5. 96 6. 16 8. 40 5. 68 8. 40 5. 68 8. 40 8. 59 8. 50 80 80 80 80 80 80 80 80 80 80 80 80 80	+0.15 +1.64 -1.93 +2.44 -1.63 +2.37 -0.79 +2.01 -1.77 -1.28 -2.01 -2.21	13. 62 6. 06 10. 89 12. 87 15. 32 18. 47 7. 75 17. 31 8. 20 15. 72 9. 81 12. 99 10. 16 11. 29 13. 25 8. 54 14. 38 14. 29 17. 77 9. 62 8. 54 14. 38 11. 15 9. 56 11. 15 9. 56 11. 15 9. 58 11. 16 11. 16 9. 58 11. 16	2. 79 1. 50 2. 70 3. 37 2. 81 3. 00 1. 35 3. 59 0. 73 3. 4. 72 1. 58 1. 05 0. 67 1. 95 1. 4. 01 2. 27 1. 83 1. 71 8. 83 1. 85 8. 83 8. 85 85 85 85 85 85 85 85 85 85 85 85 85 8		8 13 11 14 9 9 10 9 12 12 16 11 12 10	13 8 10 10 13 10 12 14 12 15 18 13 13 5 13 13 5 13 13 13 13 13 13 13 13 13 13 13 13 13		4 111 6 8 6 11 8 6 7 5 4 6 8 9 9 5 6 6 7 6	1912 1913 1914 1915 1916 1917 1918 1920 1921 1922 1923 1924 1925 1927 1928 1929 1930 1929 1930 1930 1940	79.6 81.9 80.0 80.9 77.8 79.9 77.5 78.9 79.6 79.9 79.0 78.6 81.5 78.3 77.8 81.9 82.2 79.8	-0. 2 +2. 1 +0. 2 +1. 1 -2. 0 +0. 1 -2. 3 -0. 5 -0. 9 -0. 2 +0. 1 -0. 8 -1. 2 +1. 7 -1. 5 -0. 9 +2. 1 +2. 4 +2. 4 +2. 4	102 109 107 106 99 102 103 103 100 101 104 103 106 108 109 100 108 107 108 108 107 108 108 109 109 109 109 109 109 109 109 109 109	58 56 53 55 60 52 50 51 53 60 68 57 56 45 55 58 49 52 58 49 48 60	5. 22 4. 78 5. 14. 69 6. 56 5. 60 7. 44. 50 6. 24 6. 31 6. 24 6. 38 6. 3	$\begin{array}{c} -1.02\\ -0.64\\ +2.54\\ +8.89\\ +0.76\\ -0.78\\ +3.06\\ -0.20\\ +1.64\\ +1.40\\ -1.30\\ +1.13\\ -2.61\\ +0.44\\ +0.58\\ +1.01\\ -1.45\\ -1.00\\ -0.45\\ -2.06\\ -0.65\\ -1.34\\ \end{array}$	10. 47 9. 81 9. 90 7. 42 31. 13 14. 11 9. 70 16. 52 12. 28 17. 17 12. 58 8. 88 17. 03 13. 78 13. 95 10. 98 13. 78 13. 95 10. 98 13. 78 13. 95 10.	1.46 1.15 0.78 1.07 5.73 2.16 2.50 2.21 3.50 2.21 3.50 2.40 2.65 1.36 2.65 1.36 2.03 0.33 0.45 1.43	0	11 9 9 8 17 12 11 13 11 14 13 9 12 6 10 13 11 10 9 10 8 11 11 11 11 11 11 11 11 11	14 15 14 18 5 14 15 18 19 9 12 15 14 12 15 14 12 15 11 16 15 11 17 17 17 18 18 18 19 11 11 11 11 11 11 11 11 11 11 11 11	10 9 13 10 12 9 9 8 8 10 13 13 13 13 18 8 9 11 10 11 11 11 12 11 11 11 11 11 11	7 7 7 4 3 3 14 8 7 7 10 8 9 9 6 8 8 8 5 7 7 8 8 8 6 7 7 5 4 8 5 7

				1	1		D	aily	Te	mpe	erat	ure	s fe	or J	uly	, 18	934							-		-			1		_	
Stations.	1	2	3	4	ā	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22 2	3 2	24 2	25	26 2	7 2	28 4	29 8	30 8	31 1	Mean
Eastern Portion.  Beanfort (near)   Maximum   Minimum	966 766 944 75 93 75 92 78 96 76 98 74 98 74 98 74 99 76 99 76	91 75 87 70 91 72 91 76 89 72 96 73 91 73 96 74 97 73 96 74 97 73 97	89 71 84 72 89 71 88 75 83 70 91 70 87 71 97 68 91 69 91 69 91 68 75	888 73 85 73 90 71 89 75 79 70 88 73 71 88 89 70 90 90 90 90 90 90 90 90 90 90 90 90 90	91 71 87 72 92 92 69 89 74 95 70 91 70 91 72 95 67 94 70 98 99 66 98 99 94 72	92 74 89 73 94 72 87 73 91 71 93 73 94 69 96 71 94 69 96 71	91 72 87 73 90 72 88 75 92 74 92 72 92 73 94 70 94 70 96 69 96 71 94 72	90 71 89 73 73 91 72 88 77 78 95 78 94 78 96 68 99 70 68 99 71	91 71 85 72 95 71 87 76 90 69 92 70 93 71 96 65 98 68 98 68 91 71	88 71 85 70 87 70 87 71 89 71 89 69 88 69 95 67 91 93 67 91 91 94	86 70 84 71 99 97 84 74 85 69 86 71 87 70 95 67 90 71 70 89 71	85. 71 85. 70 92 69 86 70 88 70 88 71 90 96 97 71 93 91 70 92 91 70 92 91 70 92 92 92 94 95 96 97 70 97 97 97 97 97 97 97 97 97 97 97 97 97	94 76 91 72 97 75 94 72 92 70 95 70 96 70 100 71 98 70 71	74 94 74 104 75 92 76 99 72 99 78 102 73 100 72 101 71 104	102 77, 92 74 103 75 98 97, 74 99, 73 101 75 99, 72 104 74 103	102 78 95 72 104 71 95 78 101 72 98 71 102 72 101 72 105 69 104 73 104 73 105	97 75 97 73 103 74 93 80 101 75 101 72 103 70 101 71 101 70 101 71	100 78 92 74 101 74 92 78 96 74 98 70 96 75 96 75 77 97 77 97	98 76 88 72 95 71 91 78 95 73 98 71 96 73 99 73 99 73 99 73 99 73 99 73 99 73 99 73 99 73 99 74 99 75 99 76 99 99 76 99 76 99 76 99 76 99 76 99 76 99 76 99 76 99 76 99 76 99 76 99 99 99 99 99 99 99 99 99 99 99 99 99	99 78 91 73 98 80 100 72 95 71 96 71 97 98 70 100 71 98 70 98 70 98 70 71 98 70 70 70 70 70 70 70 70 70 70 70 70 70	108 78 95 75 101 76 98 81 101 71 103 72 100 75 96 71 102 75 98 73 99 71	76 90 75 97 78 95 75 96	90 75 88 75 91 87 79 92 75 74 91 75 77 91 77 88 72 74 91 75 77 91 77 91 77 91 77 91 77 91 77 91 77 91 91 91 91 91 91 91 91 91 91 91 91 91	99 75 91 76 97 74 95 77 96 73 98 76 98 77 96 77 96 77 97 77 97 97 97 97 97 97 97 97 97 97	95 74 92 72 73 93 80 95 72 93 71 98 69 100 71 94 70 70	90 72 92 75 75 86 79 74 91 73 98 75 74 91 73 94 74 99 98 74 99 98 74 99 98 74 99 98 98 98 98 98 98 98 98 98 98 98 98	92 76 88 70 94 72 89 75 94 69 94 69 178 96 70 96 96 97 96 96 96 96 96 96 96 96 96 96 96 96 96	94 777 90 74 95 74 96 98 97 74 98 71 97 73 97 74 77 78	95 78 88 74 78 89 79 79 75 75 97 74 97 72 97 75 97 75 97 75 97 75 97 75 97 75 97 75 97 75 97 75 97 75 97 75 97 75 97 75 97 75 97 97 97 97 97 97 97 97 97 97 97 97 97	91 72 87 73 92 72 93 88 72 94 73 98 71 92 72 97 73 98 71 99 71 98 72 97 97 97 97 97 97 97 97 97 97 97 97 97	98 72 87 72 98 92 77 88 8 74 91 73 93 72 90 94 78 92 72	988 74 89 72 94 72 94 77 98 72 97 70 94 71 97 96 72 96 72 97 76 77 98
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Westera Position.  Alken Maximum Minimum.  Anderson. Maximum Minimum.  Cassars Head. Maximum Minimum.  Castars Head. Maximum  Calhenn Fall-\$\overline{\pha}\text{Minimum.}\text{Minimum.}\text{Minimum.}\text{Canden \$\overline{\pha}\text{Minimum.}\text{Minimum.}\text{Minimum.}\text{Cherokee (near). Minimum.}\text{Chenson College Minimum.}\text{Chenson College Minimum.}\text{Chenson College Minimum.}\text{Chenson College Minimum.}\text{Chenson College Minimum.}\text{Chenson College Minimum.}\text{Chenson College Minimum.}\text{Chenson College Minimum.}\text{Chenson Minimum.}\text{Chenson Minimum.}\text{Chenson Minimum.}\text{Minimum.}Minimum	944 75 91 71 84 63 98 70 100 73 92 69 95 75 93 70 95 75 93 70 95 75 95 95 95 95 95 95 95 95 95 95 95 95 95		95 71 87 71 82 63 92 69 75 88 71 89 71 89 71 89 71 89 71		899 700 701 72 88 64 91 70 94 71 91 72 91 72 91 72 91 72 91 98	90 71 91 70 80 64 94 72 90 77 89 68 88 88 89 70	899 700 911 688 788 600 922 73 90 67 89 67 89 67 89 67 89 67 89 67 89 68 66 67 89 67 89 68 89 67 89 68 89 67 89 68 89 67 89 89 89 89 89 89 89 89 89 89 89 89 89	90 71 86 70 82 61 91 91 73 88 69 92 73 87 70	80 70 84 69 80 69 95 72 86 69 88 69 87 71 87 68 87 88 88 88 88 88 88 88 88 88 88 88 88	86 71 88 68 69 90 62 91 72 84 68 90 69 87 70 85 68	88 71 86 68 77 61 89 63 96 71 85 69 85 68 87 71 88 69 87 81	91 71 86 71 77 61 93 61 92 73 86 68 87 68 90 70 70 87 70	96 70 98 67 68 85 63 97 69 98 72 92 70 93 69 97 97 97 98 98 72	73 96 71 87 65 90 69 100 72 92 69 96 71 100 74 96 74 98 72	101 777 98 71 871 87 68 101 73 98 69 95 71 96 76 95 78	99 72 98 68 89 65 100 68 103 73 96 66 67 100 73 98 73	100 78 96 73 91 102 72 103 73 98 69 96 70 100 75 98 76	98 73 96 72 85 65 100 72 97 72 90 69 94 71 96 70 93 78	90 70 89 71 86 63 99 68 99 90 69 91 72 88 79 94 71 88	97 78 98 70 87 63 101 69 99 72 94 74 98 69 94 74 95 70 94 72 91 74 92 91 74 92 91 74 92 91 94 74 95 96 96 97 97 97 97 97 97 97 97 97 97 97 97 97	101 70 97 75 89 68 100 70 102 74 98 73 101 76 98 75 96 74 98	99 74 78 90 67 101 70 102 74 97 70 97 76 98 71 98	97 74 95 76 88 73 101 71 96 75 96 75 97 76 98 79 77 97 77 97	76 93 69 86 68 101 71 100 74 90 72 92 75 94 77 98 77	100 76 95 70 93 69 102 72 98 67 98 75 99 75 99 75 98	95 68 96 70 96 73 94 70	98 72 90 70 84 61 101 72 70 86 69 91 72 91 68 80 71 88	94 72 88 86 65 99 95 73 92 71 90 68 90 70 93	91 72 84 70 62 89 69 77 72 86 70 73 83 68 85 71 89	93 72 73 70 80 61 90 90 90 90 90 72 90 73 84 68 87 88 88 88 88 88 88 88 88 88 88 88 88	929 686 889 625 686 687 897 867 868 855	94.72.90.70.84.64.96.69.96.72.91.71.71.89.92.72.91.89.91.71.71.89.91.89.91.89.91.89.91.92.92.92.91.71.89.91.89.91.92.92.92.91.92.91.92.92.91.92.92.91.92.92.92.92.92.92.92.92.92.92.92.92.92.
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Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

10 Instruments are read in the morning; the maximum temperature then read is charged to the preceding days one which it almost always occurs.

WBO, Raleigh, 8 27 34-900

# CLIMATOLOGICAL

SOUTH CAROLINA SECTION.

G. C. MERCHANT.

Vol. XXXVII.

Columbia, S. C., August, 1934.

No. 8

# GENERAL SUMMARY.

gree above the normal, and rainfall was somewhat deficient, on

Showers were scattered to local until about the 18th, when generous rains began, and by the 28th most localities had reecived ample moisture. Cotton made generally good progress throughout the mouth; blooming and fruiting began freely in the northern portion the first week, and bolls were opening along the coastal plain. The crop opened rather slowly due to considerable cloudiness, but by the 20th picking made good advance in the southern portion. The first bale was ginned at Allendale on the 17th, or 7 days later than the average date. By the close of the month picking and ginning were well under way in southern sections, and picking had extended somewhat into northern limits. Shedding and weevil activity were near normal, generally. Intermediate and late corn, potatoes, peas, peanuts, cane, pastures, meadows, gardens, etc., needed additional moisture in many places the first two weeks, but progress and growth were mostly excellent thereafter with increased moisture. A good crop of commercial peaches had been marketed locally and shipped by the 15th, and tobacco curing was practically completed by the 31st. Both tobacco and peaches commanded satisfactory prices, according to reports. Fodder and hay curing proceeded fairly well, though cloudiness and showers at times interferred. Fall grain sowing began in southern portion the latter half of month, with ground in good condition for plowing and planting fall crops, in general. Fall apples appeared on market the last week.

#### TEMPERATURE.

The monthly mean for the Section, from reports of 43 stations, was 79.9°, or 1.1° above normal. The highest temperature was 102° at Ferguson, Orangeburg County, on the 6th, and at Society Hill, Darlington County, on the 4th. The warm periods were generally from the 2d to 4th, and from the 9th to the 26th, when daily mean temperatures averaged from 5° to 8° above normal. The lowest temperature was 53° at Caesars Head on the 31st. The cool period was on the last two days, with 5° to 9° below the normal.

The average temperature for the summer was 80.3°, the second highest average for the months of June, July and August since the beginning of records in 1887. The warmest summer averaged 80.7° in 1925.

#### PRECIPITATION.

The average for the Section, 55 stations reporting, was 5.02 Average temperature for the Section was slightly over a de- inches, or 0.68 inch below normal. Monthly amounts ranged from normal to above in southern and eastern counties, and at a few places in extreme northern counties, but were mostly below normal in western, central and north-central counties. The greatest monthly amount was 10.10 inches at Caesars Head; the least monthly amount was 0.83 inch at Aiken. The greatst 24hour amount was 4.39 inches at Winnsboro on the 18th. The average number of rainy days was 10, the normal number.

Killed, Injured and Damaged by Lightning .- 23d, Hugh A. Hayes, at Sedalia, Union County, was killed during a ball game; on 10th, at Chester, James Clark was severely shocked; also two mules were killed at same place, same date, loss about \$200; on 10th, at Stateburg, steeple of the Church of the Holy Cross was damaged about \$200.

Damage from Hailstorm.—2d, Orangeburg County, Canaan Section, crops and buildings were damaged, estimated \$1,500.

Damage from Thunderstorm. -4th, at Anderson, a severe thunderstorm damaged property in the city, estimated at \$9,000, and crops in the vicinity estimated damage, \$1,000.

#### RIVER CONDITIONS.

River stages throughout the Section averaged normal to below, except slightly above the normal at Pelzer, Saluda River, and at Rimini, Santee River. Flood stage, or slightly above, was reached at Rimini several times during the month; however, no damage was reported.

# MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 22; Columbia, 29. Solar: None reported.

Fog (dense) - Bishopville, 7; Blackville, 7; Caesars Head, 13, 23, 25, 27, 28, 30, 31; Cherokee (near), 28; Kershaw, 9, 10; Laurens, 29; Santuck, 9, 29; Trenton, 7, 8, 9, 13, 22.

# PRESSURE, WIND, HUMIDITY AND SUNSHINE.

	Atm (red	osphe luced	ric r to se	a-level	e )		Win	d		hu	midi	ty	of
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage of
Asheville, N. C Augusta, Ga Charleston, S. C. Charlotte, N. C. Columbia, S. C. Sayannah, Ga. Wilmington, N. C. Means and ex- tremes.	30. 06 30. 06 30. 07 30. 06 30. 06 30. 06 30. 06	30. 35 30. 30 30.27 30. 38 30. 34 30. 26 30. 29	31 31 31 31 31 31	29. 89 29. 85 29. 89 29. 89 29. 88 29. 88 29. 86 29. 85	22 20 20 20 20 20 20 20 20 20	5.9 5.6 9.8 7.3 6.8 9.1 9.0 7.6	21 19 26 24 21 45 27	nw. nw. nw. se. sw. n. n	1 4 17 8 28 27 5	88 86 80 86 87 85 83	65 63 62 62 64	78 74 83 72 74 79 81	80 70 58 59 62 72

#### Climatological Data for August, 1934.

	Climatological Data for August, 1984.  Temperature, in degrees Fahr. Precipitation, in inches. No																			
			record.	7	lemper	ature.	in deg	rees F	ahr.		Preci	pitation.	in ine	hes.	Nun	ber o	of da	ıys.	tion	
Stations.	Counties.	Elevation, feet.	Length of re	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Grennest daily range.	Total.	Departure from the normal.	Greatest in 24 nours.	Total snowfall, unmelled.	With precipition (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
Eastern Portion.																				
Beaufort (near)‡‡ Bishopville Bluckville Churleston Cheraw	BeaufortLeeBarnwellCharlestonChesterlield	21 224 296 48 144	54 51 64 53	\$81.9 79.9 81.7 82.2 79.8	+0.9 +1.2 +1.2 +1.3	897 97 101 96 98	†17 † 4 † 4 4	58 60 64 54	31 31 31 31 31	#26 22 30 20 26	2.65 1.73 5.22 7.05 7.27	-3.61 -0.12 +0.52 +1.07	1.00 0.42 2.00 1.81 1.56	0 0 0 0	6 10 15 16 10	16 11 4	12 19 16	3 1 11	s. sw.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews U. S. Wentker Bureau. Roland D. Powe.
Conway Darlington Effingham FergusonH	Horry Darlington Florence Orangeburg	25 175 106 63	46 40 44 49	81.3 80.7 82.0	+2.0 +1.9  +3.5	99 99 102	4 4 6	56 56 58	35 31 31	25 24  30	8.82 3.18 5.90 4.14	+2.21 -1.80 +0.19 -2.69	4.00 0.98 1.26 0.95	0 0 0	11 8 9 8	17 11 	0 8 	14 12 9	sw.	Perry C. Quattlebaum. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1 Florence 2 Chrinett Kingstree Marion	Florencedolumpton	136 136 82 54 68	53 20 18 54 11	80. 4 <sup>b</sup> 81. 4 82. 2 <sup>d</sup> 81. 0	+0.2 +0.9 +2.7	99 101 100 497	5 † 4 20	61 58 456	31 31 31 31	27 531 29 428	4.81 3.38 5.98 8.60 6.19	$ \begin{array}{r} -0.38 \\ -1.81 \\ +0.74 \\ +2.48 \end{array} $	2,10 1,57 1,24 2,35 0,85	0 0 0 0	6 6 16 15 11	12 17 3 14 11	15 10 27 8 15	4 1 1 14 5	sw. w. s. s.	H. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Mrs. Ellen Scott. W. R. Wells, Jr.
Mars Bluff Bridge Myrtle Beach Orangeburg Pinapolis** Runini	Florence Horry Orangeburg Berkeley Snuter	92 30 264 54 97	12 3 20 88 21	80.5 578.3	+0.8	94 92	† 4 5	60 60	31 31	23	6.33 7.95 3.08	+1.76 +1.16 -1.76	2.15 2.20 2.50 0.60	0 0 0 0	10 13 9 10		7	15 	sw.	Joseph L. Shaw. J. E. Bryan, Jr. U. S. Fisherics Station. Miss E. P. Ravenel. Fitzhugh L. Sweatman.
Society HHI	Darlington Dorchester Snmter Snmter Hampton	192 75 169 249 24	44 37 13 44 46	*81, 6 80, 8 80, 7 80, 2 81, 1	+3.2 +1.2 +2.3 +2.0 +1.2	*102 98 99 99 99	4 † 4 4 4 5	55 60 57 57 60	31 31 31 31 31	*29 26 28 29 28	7. 51 8. 34 4. 20 3. 40 8. 01	+1.88 +1.75 -1.17 -2.32 +1.88	2.86 1.75 1.12 1.08 4.32	0 0 0 0	10 15 7 9 12	15 11 3 20 18	10 14 22 11 1	6 6 0 12	n. sw. sw. w.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sumter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and	extremes			80.9	+1.5	102	† 4	54	31	31	5.73	-0.14	4.32	0	11	13	11	7	sw.	
Western Portion.																				
Aiken Anderson Blairs Crears Head II Calhom Falls Camden	Aikeu Audersou Fairlield Greeuville Abboville Kershaw	527 764 293 3118 508 222	73 42 20 19 36 85	81. 8 78. 2 70. 8 81. 1 81. 6	+2.8 -0.2  +2.4 +2.4	100 98 88 99 98	5 20 4 † 4 † 6	68 62 58 62 59	†30 81 31 31 31	30 26  24 32 26	0.88 4.10 4.93 10.10 2.19 3.90	-4.28 -1.02 -0.22 -2.23 -1.39	0.30 0.85 3.09 2.20 1.23 1.68	0 0 0 0 0	5 10 7 18 6 8	14 11  2 7	5 3 9 19	12 17  20 5	sw. w. ne. s.	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Clyde C. Clark. L. M. Parker. Henry A. Brown.
Catuwba	Vork Newberry Spartanburg Oconee Richland	562 402 758 850 351	29 30 7 48 48	77. 5 78. 9 80. 7	+1.5 +1.1	95 93 98	**************************************	61 62 61	†29 29 31	25 26 27	5.28 1.14 6.47 5.77 3.69	+0.47 -3.47 +0.96 -1.78	2.54 0.58 1.84 1.74 1.40	0 0 0 0	6 8 8 11 8	24 1 5	5 12 18	 2 18 8	sw sw.	James C. Faris. William Spearman. Spartanburg Water Works Prof. F. H. H. Cullionn. U. S. Weather Bureau.
Crescent. Edgefield Ellenton Guston Shoals []. Greenville.	Spartanburg Edgefield Aiken Cherokee Greenville	630 550 76 680 1039	8 22 3 32 51	78.0	+2.2	94	5	62	31	25	9.19 4.11 1.46 4.41 5.00	+0.35 -0.86 -0.50	1.71 1.55 0.50 1.32 2.01	0 0 0 0	10 4 6 9 12	10	8	13	ne.	Duke Power Co. J. C. Doscher. A. A. Foreman, Southern Public Utilities. Walter R. Hall.
Greenwood Heath Springs Kershaw Landrum Lanreus	Greenwood. Lancaster. Kershaw Spartmiburg. Laurens	568 500 1063 589	51 33 19 20 17	*80. 0 77. 6 79.4 77. 7 80. 4	+1.7 -0.6 +0.9 +1.1 +2.5	*97 97 98 96 98	20 4 4 4 4	61 56 58 61 62	31 31 31 31 31	25 26 24 25 26	3. 49 3. 04 6. 18 8. 36 2. 49	-1.44 $-2.80$ $+1.83$ $+3.44$ $-1.98$	1. 02 1.05 4. 16 2. 16 0.81	0 0 0 0	8 12 10 12 9	13 6 1 7 21	0 3 0 21 10	18 22 30 3 0	w. w. w. nw	M. M. Calbonn. J. Marvin Bowers. John W. Hamet. R. Hartwell Wilds, D.D.S. L. G. Roff.
Little Mountain Long Creek Newberry Pelzer Saluda Santuck	Newberry Oconee Newberry Anderson Saluda Union	711 1000 502 850 536 512	31 31 33 42	78.8 76.2 81 1 80.9 80.2	-0.3 +1.6 +2.0 +1.9	100 92 100  99 101	† 4 4 4 4	55 58 59 55 58	31 29 31  31	33 28 30  29 28	3.68 4.56 3.98 5.18 3.28 3.90	-1.51 -1.23 +0.82 -1.48 -1.67	1.69 0.76 1.38 2.10 2.00 1.36	0 0 0 0	6 14 10 9 4 12	17 14 7  19 2	9 9 18 11 19	5 8 6  1 10	s. w  sw. w.	Miss Elberta Sease, Mrs. K. L. Burton, John H. Baxter. Farl J. Frick. B. B. Blease, W. O. Jeter.
Spurtanhurg Trenton Walhalla Winnsboro Winthrop College 11.	Spartanburg Edgefield Oconee Fairfield York	824 620 1061 545 690		78.4 81.6 78.1 80.6 79.0	+0.9 +2.8 +1.7 +2.4 +0.8	96 98 94 99 100	†14 †3 †4 4	61 54 59 57 58	31 31 29 31 31	24 80 29 27 29	4. 20 5. 21 5. 38 5. 48 3. 40	-1.22 -0.04 -0.30 +0.27 -1.84	1.98 1.60 1.18 4.39 1.75	0 0 0 0	10 8 11 11 11 9	1 4 12 1 8	8 25 14 25 24	22 2 5 5 4	SW. SW. SW. SW.	U. S. Weather Bureau. Mrs. S. E. Long. II. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division means and Section means and	extremes			79.1	+0.9	101	† 4	53 53	31	33	4.51 5.02	-0.46 -0.68	4.39	0	10	9	12	9	sw.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. I also not the date, at I fleedyed too late to be inclined in means and summaries. "Temperature data are from observed readings of the dry bubble; incuits are computed from observed readings. Il Post-office addresses of these stations are as follows: of Gaston Shonis, Blacksburg; of Winthrop College, Rock Illil; of Ferguson, Entaw ville; of Cesar's Blad, Greenville; of Beanfort (near), Burton. "Terepitation is less than 0.01 for aim or melted now.

Daily Precipitation for August, 1934.

															Di	rs of	шо	nth.														es
Stations.	Dramage- busins.	1	2	8	4	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20 :	21	22 2	25	21 2	5 26	25	28	79	-10	31	
Eastern Portion. eanifort(near). ishopythe netwitle	Const	. 04	.11	T 08	T.		T. .13	. 28 T. T.	.26 .21 .08	.03		. 44		.96	i i	.56		.27	.03 .76 .44 T.	. 19 .27 .26 .68 .85					.04 .04 .47 .06	01 ( 71 (		100 1 1	0 T.			2, 65 1, 73 5, 22 7, 05 7, 27 8, 82 3, 18
nrlington	Peedee			. 06	57				.70	.01 .28 .15	.01	1.05 .48 .15	. 17	••••	1. 18	.10			.38 T.	. 64 . 95 . 05 . 35 . 07		.50	.48 .	.48	1.24 . .41 . 2.10 . 1.57 . T.		22	36 . 1	38			5. 90 4. 14 4. 81 3. 38 5. 18
lugstreelli Inrion Iars Bluff Bridge Iyrtle Beach rangeburg inopolis	HlackPeedeedoConstEdistoCooper		.27	.83					.60	. 84		.60								.04	.02		.20	.87	.78 .		2. 35 2.	82 . 8 65 20 50	15			6. 19 8. 04 6. 83 7. 95 8. 68
thulu        ociety	Ashenon	, 13				. 58		.18	. 27 . 35 . 45 . 13	.48	1.08	2.86 .31 .82 .10 .03	.80			.10		.02	.10	.78 .94 1.12 .25	.10	.62		.76 .98	.77	i		68 4.	75 T	4		7.51 8.34 4.20 8.40 8.01
Western Partion, ilkon inderson Blairs      Seears Head Tathoun Fulls      Jamaden	Edisto	.78			.12	.01	.30	. 49 1. 84 . 34	.91	. 28	.01	.04	.77		.28					1.68	.20			.93	. 30			14 . (2 82 02 .	08	3 . (	5	4. 10 4. 93 10. 10 2. 19 3. 5.0
htawba      huppeils       herokee (near)  Jenson Callege  Columbia ***  creseent	Catawba Saluda Broad Savannah Congarce Enoree					.10		1.54	.02			.70	 31 1. 22 T.	.05			T.		 .21 1.74 1.40 1.71	2.54		T.		. 20 	.08	.19	73	84 1. 22 25	19	. [1, 1	0	1.14 6.47 5.77 3.69 9.19
tige field	Savannah				.30	.10	1. 69		.22	.13	····	 58 T	.27			::::	т.		.05	.10	.48		.42	.50	1.22 .52 .17 .20	.02	10 08 49	r	26 24 70 (2	. 1.3	32	4. 14 1. 46 4. 41 5. 66 3. 49 3.04
Cershaw	by nelies Brond Salida Salida					. 15		1.21 .12	. 15	.18	.21	1.79	.04	. 25	5	. 02		.16	1.00	4. 16		::::		. 92	.83	.31	05	.36	25	17	6	6. 18 8. 36 2. 49 8. 63 4. 66 8. 98 5. 18
Pelzer	do	1			.03	7 T.	T'	is	.12	.58	. 69	2 .1		6 T. T.	T.			T.	1. 02 T. 1. 60	0 . 28		::::	T. T.	1. 36 T	. 12 . 68 	.03 .70 .05	.00 .06 .06 .25	.08 .08 1	65 78 T		16 62 T.	3.28 3.90 4.20 5.21 5.38 5.48
Winnsboro	Broad Catawba				.08	8		.08			. 3	9					٠		1.78	5 . 05	5	• • • •	. 08	. 70	1 .20		• • •		.47			

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. |||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station: precipitation is for the 24 hour period, midnight to midnight. \* Precipitation included in the next following measurement. Separate dates of fails not recorded. T. Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR AUGUST.

									COM.	PAR	AL	IVE	, D.	CTIL I	010 11	CGCD											
		Temper	ature			Pree	ipitatio	on		Num	ber	of Da	ays			Tempera	ture			Pree	ipitati	on		Num	ber o	f Day	ys.
Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least	Average	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip01 inch or more	Clear	Partly Cloudy	Cloudy
1887 1889 1890 1891 1891 1892 1893 1895 1895 1895 1895 1990 1990 1990 1990 1996 1999 1999 1999 1999	77. 8 74. 4 77. 1 78. 9 79. 5 77. 5 79. 4 80. 4 78. 6 78. 6 80. 6 80. 6 80. 6 77. 6 81. 2 83. 0 78. 6 79. 4 80. 4 78. 6 79. 4 78. 6 79. 4 78. 6 79. 4 78. 6 79. 4 78. 6 79. 4 79. 6	-1.0 -1.4 -1.7 -1.4 -1.7 -1.3 -0.9 +0.6 +1.6 -0.8 -0.1 +2.4 +4.2 -0.2 -0.2 -1.2 -0.9 +1.8 -1.2 -0.2 -0.9 +1.8 -1.2 -0.2 -0.2	101 102 97 96 98 96 97 102 101 105 102 99 103 106 97 104 105 102 107 100 101 100 101 100 104	49 50 45 51 55 59 57 55 52 57 57 59 60 57 55 60 54 49 49 53 60 51	6. 54 4. 53 6. 37 4. 25 8. 79 4. 42 17. 28 7. 95 4. 14 5. 16 9. 81 6. 26 2. 13 9. 01 5. 07 7. 15 6. 69 6. 62 6. 63 6. 60 6. 05	+0.84 -1.17 +0.67 -1.45 +3.09 -1.28 +6.75 +1.56 +1.56 -0.54 +4.11 +0.56 -3.57 +3.31 -0.63 +1.45 +2.77 -0.01 +0.92 -0.29 +3.41 +0.30 +0.35	13. 70 15. 26 11. 89 7. 95 28. 80 9. 72 24. 67 12. 26 12. 00 10. 21 9. 93 24. 68 17. 94 5. 55 19. 32 8. 68 12. 83 13. 43 10. 87 11. 40 19. 53 11. 40 11. 50	1. 27 1. 52 1. 73 1. 61 1 4. 30 1. 38 5. 38 3. 82 1. 22 1. 27 4. 28 1. 33 0. 27 3. 05 3. 92 2. 30 2. 30 2. 30 2. 30 30 30 30 30 30 30 30 30 30 30 30 30 3		12 9 13 11 13 7 9 18 10 5 15 12 12 12 14 11 15 9 10 8 10	10 10 10 9 14 13 8 12 21 15 12 15 12 15 12 15 11 10	9 13 14 12 9 11 11 10 9 9 9 8 17 13 11 12 11 10 11 11 11 11 11 11 11 11 11 11 11	12 8 8 8 5 9 12 8 1 10 7 7 7 10 8 7 5 8 8 4 8 6	1912 1913 1914 1915 1916 1916 1917 1918 1919 1920 1922 1923 1924 1925 1926 1927 1928 1929 1929 1929 1930 1931 1933 1934 1933 1934	79. 2 78. 9 79. 0 78. 8 79. 6 78. 5 77. 7 78. 2 76. 4 79. 4 78. 2 79. 4 78. 2 79. 9 78. 2 79. 8 79. 8	+0.4 +0.1 +0.2 0.0 +0.8 -0.3 +1.4 -0.3 -1.1 -0.6 -2.4 +0.5 +1.6 +1.6 -0.8 -0.8 -0.8 -0.8 -0.8 -1.3 -0.6 -0.5 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6 +1.6	104 104 101 102 100 102 106 103 100 102 98 101 105 109 100 99 98 101 103 105 103 105 103 105 103 100 102 103 100 102 105 105 105 105 105 105 105 105 105 105	54 52 58 59 59 52 53 56 49 54 53 53 55 59 50 50 55 49	3. 69 3. 76 5. 88 7. 62 3. 27 3. 23 4. 45 5. 08 8. 08 4. 14 2. 86 1. 48 3. 46 4. 34 10. 22 4. 84 5. 31 5. 02 5. 70	-2. 01 -1. 94 +0. 18 +1. 92 -2. 43 -2. 47 -1. 25 -0. 62 +2. 38 -1. 56 -0. 63 +1. 74 -2. 84 -4. 22 -2. 24 -1. 36 +4. 52 -0. 69 -0. 69 -0. 69 -0. 68 -0	6. 75 8. 78 13. 70 13. 58 10. 91 8. 62 8. 11 9. 69 15. 40 10. 03 12. 73 14. 30 8. 28 3. 31 6. 05 8. 84 20. 02 8. 70 7. 66 10. 45 14. 76 10. 14 10. 10	1.02 0.76 2.52 3.72 1.15 0.70 1.76 1.44 2.81 1.21 0.89 3.15 1.18 0.28 1.51 0.45 1.99 0.60 0.29 1.84 1.22 1.02 0.83	0	9 9 9 13 14 8 8 8 8 7 9 14 10 11 12 6 4 4 7 7 9 12 7 5 10 10 10 10 10 10 10 10 10 10 10 10 10	16 15 9 11 16 15 20 14 8 14 12 11 11 18 21 11 17 12 18 16 17 17 11 17 11 11 11 11 11 11 11 11 11	8 9 15 11 10 10 10 7 11 12 10 8 11 19 7 7 10 10 11 18 8 7 10 9 10 12 11 11	7777956466111711944349777788799

								13 7	Pem	ner	atu	res	for	r A	ıgu	st,	193	4.		1			1	1		1						
Stations.	1	2	3	4	5	6	-	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26 2	7	28	29 8	30 :	31	Mean
Eastern Portion.  Beaufort(near)   Maximum								86	88 72	85 70	89 73	88	89 79	92	93	94	97	96 75	89 78	97 75	96	98 78	92 78 91	94	91		90	92	92	83 68	83 61	€90.9 €73.0
Bishopville   Maximum   Minimum   Minimum   Maximum   Maximum   Maximum   Minimum	86 72 86 69	89 73 94	92 73 98	97 75 101	92 72 101	92 75 98	86 72 93	85 71 89 71	87 71 91	90 73 99	86 72 83	87 73 85 70	87 72 88	89 72 93	72 92 74 94	68 93 75 93 73 92 78 95 73 96	75 92 74 97 73 94 74 88 73 96 74 92 74	89 74 94	87 71	98 74 99	87 72 93	85 68 91	91 73 92	77 90 78 93 72 90 80 88 72 94 74 91	91 75 94	76 91 75 94 78 58 79 88 73 95 72 92 75	68 79 72 89 71 84 72 82 71 79 72	81 67 87	92 74 84 68 89 69	82 64	75 58 80	88.1 71.7 91.9
Charleston Maximum	89 76 89	91 75 90	94 78 94	96 77 98	71 95 77 93 72 96 74 95 73	98 73 92 76 92 73 91 74 95	86 72 93 73 85 77 85 71 88 73 90 72	83 74 89	87 71 91 71 85 70 91 70 90 70 89 70	72 85 73 94	86 72 83 71 81 73 90 71	86 74 91 72	71 88 77 90	89 72 93 71 88 78 93 78 94 71 92 71	73 90 80 91 74 94	92 78 95	94 74 88	89 74 94 73 98 75 87 74 92 73 92 72	89 72 91 76 90 73 93 70 87 70	93 74 99 75 92 77 96 74 97 72 97	75 91 80 81	85 68 91 73 90 79 86 68 92 72 86 68	73 92 73 89 79 88 70 91 75 90	90 80 88	74 91 79 93	58 79 88	84 72 82	81 67 69 89 72 82 67 88 69 82 69	81 74	83 67 79 72 77 64 79 66 82 64	78 58 80 60 80 64 80 54 79 56	88.1 71.7 91.9 71.8 88.8 75.8 88.9 70.7 90.9 71.7
Cherawis   Maximum     Minimum       Minimum	68 95 74 91 74	75 90 71 83 72 93 74	73 95 71 95	77 98 75 99 76 99 75	72 96 74	78 91 74	71 88 73	71 88 73 87 74	70 90 70	88 73 94 73 88 72 91 70	71 91 71 90 71	72 90 71 90 72	67 93 72 88 72	78 94 71	74 94 74 95 73	73 96 73 95 75	73 96 74	74 92 73	73 93 70	74 97 72	81 74 88 73 88 71	68 92 72	70 91 75	72 94 74	91 79 93 73 97 74 93 75	73 95 72	70 82 71	67 88 69	84 65 83 70 84 67	64 79 66	54 79 56	70.7 90.9 71.7
Darlington   Maximum   Minimum   Minimum   Minimum   Maximum   Maximum   Maximum   Min		- 1	73 98	100								- 4	72 95 69				- 1															
Florence I / Minimum / Maximum	69 90 72	93 72 93 70 96 69	71 96 71	78 99 74 99 72	100 71 95 70 101	102 72 94 74 08	95 71 89 70 98 70 98	70 89 72	70 89 70 93	94 70 92 72	92 70 90 70	70 91 72	69 91 71	91 67 94 70 96	97 71 95 78	70 96 69	98 72 95 73 98 72 97	72 91 74	70 90 70 80	72 95 71	98 75 87 72	91 70 86 68	71 89 69	70 90 71	98 78 92 74 97 72 95 74	73 95 70	71 90 68	66 86 70	90 66 84 64	88 65 80 64 82	58 77 61	70.0 90.6 70.8
Garnett 5 Maximum / Minimum, Kingstree 5 Maximum / Maximum / Minim	93 69 90 72 91 68 96 71 93 73	96 97 71 94	71 99 72 95 70 96	100	70 100 71 95 72	74 98 71 94 71 92 74	70 98 74	89 70 89 72 89 69 89 72 84 72	90 70 89 70 93 69 92 70 90 69	72 90 70 96 73	70 79 71 89 71 93 71	90 68 93 71	91 71 93 67 94 71	70 96 68 96 70	78 94 70 96 73	98 70 96 69 96 67 95 74 95	72 97 74 96	97 72 91 74 98 72 95 74 92 75	70 89 70 90 71	100 72 95 71 98 74 96 74 97 74	98 75	90 71 91 70	95 71 89 69 97 72 95 75 92 70	96 70 90 71 95 70 94 74 93 70	72 95 74	98 73 95 70 97 70 96 76 94 76	87 71 90 68 95 69 85 72 83	92 66 86 70 89 67 88 70 86 70	86 69 87 69 87 68	68 80 67 80 65	81 61 79 58 81 56	94.6 70.6 90.6 70.8 1-93.2 1-69.6 92.7 71.7 4-91.0
Marion.   Maximum   Minimum   Maximum   Maximum   Maximum   Maximum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Maximum   Minimum   Maximum   Maximum   Maximum   Maximum   Minimu	93 73	94 70	96 68	75 96 74	95 72	92 74	74 91 73	84 72	69	78 92 78	93 71	72				95	96	92 75	88 70	97 74	75 90 74	70	92 70	93 70	95 75	94 76	71	86 70	87 68	80 65	56	<sup>d</sup> 91.(
Orangelary   Maximum   Minimum	89 72	91 73 94	92 74 97	94 75 102	94 71 97	93 73	90 78 94	86 72 98	89 72	90 73 95	88 72 93	56 71 93	87 71 92	90 71 96	91 78	92 78 97	92 74	89 73	86 78 93	94 76 99	91 78 86	89 78	91 75	91 74	92 75 96	90 72	85 70	83 68	84 70 86 66	82 67 80 63 76	78 60	89.0 72.0 *92.8 70.4
Summerville M Minimum	89 72 98 71 94 71 90 70 89	69 92	72 97 72 95	75 98 73 99 75 99	68	78 94 71	71 90 78 90 71 92	72 88 72 88	70 87 72	73 90 72	70 82 72	71 94 70 89	71 83 70 90	71 85 70 92	72 94 72	92 78 97 74 95 71 94 69	74 92 74 96 74	73 89 74	69 88 71	72 92 74	71 93 76	68 92 74	72 92 75	72 93 75	74 93 78 98	74 92 74	70 87 78	67 90 69	66 84 72	63 76 61	55 76 60	90.1
Wedgelield Minimum Min	90 70 89 70	78 98 72 92 72 94 72	72	99 75 99 75	98 72 98 70 98 69 99	94 71 95 73 95 72 98	90 71 92 70	70	89 72 98 70 87 72 91 70 90 70	78 90 72 95 72 95 72 92 68 91 72	70 82 72 89 71 88 70 79	89 71 87 70 88 70	70 88 70	70 91 70	91 78 98 72 94 72 94 72 92 72 94 72	94 69 98 78	74 96 73 96 78 97 72	89 73 92 73 89 74 93 72 93 73 95	69 88 71 87 70 87 70	72 92 74 96 78 95 78 96 74	94 69 85 69	89 78 92 68 92 74 88 68 88 68 94 71	91 75 97 72 92 75 93 72 92 78 95 74	91 74 94 72 93 75 93 72 90 72 93 72	98 74 92 78 98 78	90 72 97 74 92 74 94 74 93 73 98	85 70 82 70 87 78 81 71 82 70 90	83 68 87 67 90 69 87 65 88 65	84 72 85 67 82 67 84 69	61 83 63 81 64	78 60 79 55 76 60 79 57 83 57	71.6 91.1 70.8 90.2 70.1 91.6 70.5
Yenussee	70 90 69	94 72	97 72 97 72	75 98 72	99 71	98 70	70 92 72	88 69 87 70	90 71	91 72	79 72	88 70	90 68	90 70	94 72	98 78 94 70	97 72	95 78	90 72	96 74	96 74	94 71	95 74	98 72	98 78	98 71	90	88 65	84 69	80 68	80 60	91. 8 70. 7
Western Portion.	91	91	95	96	100	96	94	89	87	94	92	90	94	94	93	95	98	96	94	95	98	94	90	92	92	91	89	81	86	25	81	92.1
Anderson Minimum  Anderson Muximum  Anderson Minimum	69 84	75 89 71 77 63	73 92 73 82	74 91 65	70 89 69	70 90 69 82	72 86 71	70 85 69	87 72 89 70 82	72 89 71 82	74 92 71 81	74 87 69	70 84 72	70 86 71	98 72 -89 -72	- 91 - 72	74 -84 - 79	76 86 72	72 89 72 80	72 93 72	74 88	78 89 66 78 58 92	70 84 71 77 62	73 88 70 78 65	74 89 71 81	75 91	72 83 70	69 78 67 74 60	69 86 65 79 58	63 78 64	63 75 62	71. 6 86. 7 69. 6
Caesars Hend.   Maximum   Minfumm   Maximum   Maximum   Maximum   Minfumm	67 79 60 98	77 63 98	82 64 97 71 96	88 64 99 69	61	82 65 95 69 98 72	72 86 71 75 64 87 70 96 72	77 63 90 69	82 64 94 70 92 72	64	66	62 93 69 92 71	80 65 96	64 96	82 64 .96	84 66 95 71 97 73	78 63 96 69 97 72	76 86 72 78 63 95 69 98	68 94 69 96	72 93 72 86 65 99 70	71 78 62 91 72	78 58 92 68	62 87 70	78 65 94	81 64 91 70 91	63	72 83 70 73 62 93 70 87 71	60 80 66	79 58 83	66 58 86 68	63 75 62 63 53 80 62 81 59	71. 6 86. 1 69. 6 79. 0 62. 8 92. 9 69. 1 92. 3
Camden M / Minimum	98 72 91 71	98 78 91 78	72	69 95 71	97 65 92 71			90 69 92 71		98 71 95 73	98 72 94 72		592 71	71	72 95 72			- 78	.72	93 73 94	90 71 87	68 90 69	87 70 90 72	94 70 92 71	72	73	- 4	80 66 92 70 80	88 64 89 68	88 65	81 59 78	92.8 70.9 86.9
Cherokee (near)   Maximum   Minimum   Minimum   Maximum   Maximum   Minimum	81 65 85 68	89 68 88 71	94 71 92 78	95 71 92 70 98	67 93 67	88 69 89 69	69 88 72	86 68 86 70 86	69 88 71	90 71 90 69	91 68 92 72	89 70 89 71	86 71 86 72 89	* 89 70 89 73	92 70 90 71	71 92 72	86 69 89 70	73 87 71	89 69 91 71	69 93 70	69 88 71 86	86 66 89 68	85 68 87 70	90 70 89 71 94 78	92 71 90 70	68 91 70	64 85 72	65 81	81 61 87 62	78 61 77 65 80	61 75 64	68.
Columbia Maximum Minimum Minimum Maximum Greenville Maximum Minimum Maximum Maximum Maximum Minimum Mi	68 87 71 82 65	68 88 71 92 74 87 66	94 74 91 73	98 77 93 78	91 67 98 67 97 70 94 69	69 92 74 89 74	86 69 88 72 86 71 82 74	86 70 87 69	88 69 88 71 89 72 89 70	93 78 90 71	92 72 86 72 92 72	71 86 72 88 69	89 72 85 72	73 88	90 71 95 74 89 78	92 71 92 72 96 74 90 78	70 92 75 88 72	83 73 87 71 90 74 87 72	71 90 73 88 71	69 93 70 96 74 91 73	86 78 78 71	89 68 88 70 88 66	91 74 87 67	94 78 88 70	70 92 75 89 71	70 92 71 91 70	81 64 85 72 78 69 81 70	68 69 77 65	87 62 86 69 88 64	80 66 73 63	61 75 64 77 61 72 62	60.1 89.1 71.1 86.1 69.1
Greenwood Maximum		90	94		93	94 70 88				- 1			87 72 84				- 1	1			89	90 69	88	93 73 92			- 6			83 65		*89.5
Henth Springs   Minimum   Maximum   Maximum   Maximum   Minimum .	87 67 88 66 88 67 84	90 70 90	91 71 92 73	95 75 97 73 98 75	91 70 92	88 70 92 72	83 72 82 69 84 72 85	96 70 82 68 86	90 70 92 68 88 71 88	92 68 92	90 72 88 69 85 71 92	84 69 89	84 70 88 79	91 71 90 69 93 71 88	95 72 96 70 96	95 73 94 70 94 74	88 73 88 72 88 72	89 72 85 70 86 72	91 72 89 69 88 72	94 70 94 72	72 81 68 87 70 85 68	81 65 87 68	79 85 19 88 78 81	69	90 71 91 72	71 98 71 90 74 88	87 70 74 68 80 71 80	78 67 78 63 80 68	85 65 80 63 82 66	68 78 64	56 74 58	86.9 68.1 88 70.1
Landrun   Maximum   Minimum   Maxtmum   Maxtmum   Maximum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Maximum   Maximum   Minimum   Maximum   Maximum   Maximum   Maximum   Minimu	84 61 87 66	68 90 70 90 73 90 67 92 73	71 92 73 93 68 95 75	75 96 71 98 75	68 91 70 92 72 95 73 96 70	70 92 72 90 71 98 72	85 70 86 72	70 86 70 90	88 70 90 70	94 71 92 68 92 72 90 70 95 70	92 69 91 72	69 89 72 87 69 92 70	70 88 72 87 72 88 71	88 70 91 71	72 92 72 96 72	74 90 70 92 72	72 85 70 89 72	72 85 72 90 71	72 86 69 91 72	97 72 94 70 94 72 98 74 96 71	85 68 91 70	86 65 90 68	81 69 89 71	72 87 70 92 72	92 78 90 71 91 78 90 70 94 74	88 68 91 70	80 66 89 68	67 88 68	66 82 62 81 66	80 68 78 64 75 63 79 65	61 74 56 74 58 71 61 79 62	86. 68. 90. 70.
LIGE Monutain Minimum	66 90 64	73 95 67	97	100	70 98 66	72 94 64		69 88 64	91	70 96 69	84	0.4	88			1	72 92 69 90		89	97 69 92	91 69	89				0	80	81 65 80	82	80	0.51	91.
Long Creek.   Maximum   Minimum   Maximum   Maximum   Maximum   Minimum   Mi	85 64 87	88	68 91 66 96	69 92 64 100	90 64 96	87 64	86 67 86	66 91	86 68 95	91 66	69 91 66 89	69 85 65 91	68 84 67 94	87 69 96	89 67 98	90 66 97	65	87 67 92	88 68 91	64	91 66 90	64 88 63 90	92 69 87 66 93	95	87 65 95	89 64 94 69	67 88 67 84 71 86	80 68 81 67 80	84 58 89	59 82 63 82 65	75 62 79	87. 65. 91. 70.
Saluda Minimum	85 64 87 68 88 71 89	66 94 78 94 72 95 71	96 75 96 75 97 75	70 99 70 101	90 64 96 69 96 70 98 71	95 72 92 71 95	99 66 86 67 86 71 85 71 82 70	68 90 71 91	67 86 68 95 70 95 72 93	96 71 95 72 96	72 87 71 89 71	70 89 73 91	94 71 89 72 87 71	94 69 87 69 96 72 93 73 94	99 69 89 67 98 70 96 73	94 69 90 66 97 73 97 74	91 73 96 73 89	91 69 87 67 92 72 93 70 91 69	65 88 68 91 78 97 72 95 73	99 79 98 79 97 71	90 72 94 68 84	90 68 91 78 90	93 72 91 73 87	78 94 74 91 78	94 69 87 65 95 78 94 71	69 69 92 70	71 86 70 81 72	80 62 81 62	68 84 58 89 67 88 65 85	84 60 75 65	79 55 75 62 79 59 80 55 77 58	91. 6 70. 5 90. 69. 5
Spartanburg Minimum.  Spartanburg Minimum.	66	71 90 69	92	96		71 90	80	68	69	68			87	90	76 91	1	69			94	84 72 80	68 87	70 84 70	88	90	88	80	- 0	1			86.
Trenton / Minimum / Maximum	67 90 68 87	92 69	93 72	74 92 70 93	94 70 92 70 91	74 95 66 87	71 91 71 85 70 86	70 93 68 85 70	88 70 92 74 89 71 90	71 95 71 98	92 71 95 70 94	70 92 71 88	72 96 70 86	98 70 88	91 73 90	96 72 92	71 95 77 86	95 74 89	93 74 90	74 98 72 93	71 97 68 83	66 68 68 61 66	94 78 87	91 71 89	98 72 89	98 72 91	92 67 84	76 65 94 67 82 62 82 69	85 65 90 64 88 F9 86	79 63 88 65 82 65 79 64	84 54 78	79. 98. 69. 88.
Winnsboro W. Minimum	79 67 90 68 87 65 87 69 85	69 93 74	70 94	99 75	70 91 65 98 71 98 69	66 87 67 98 72 92	70 86 72	70 83 69 87 68	71 90 70	71 98 68 95 72 92 69	70 86	69 89	70 89	72 96	91 73 91 73 90 70 97 73 95	98 73 96 72 92 70 99 78 96	69 93 73 90	87 72 95 74 89 70 93 72 90 70	89 71 93 74 90 70 90 72	68 96 72 96 70	69 86 71 89	66 90 67 86	94 78 87 69 98 71 88	71 91 71 68 91 72 88 71	72 98 72 89 69 98 78 98 71	70 98 72 91 67 92 72 88	71 92 67 84 70 90 71 82 69	62 82 69 80	59 86 68 84 65	65 79 64 75	78 61 84 54 58 63 77 57 57	88.5 68.6 90.4 70.8 89.5 68.8
Winthrop College / Minimum	85 65	94 72	74 95 72	100 73	98 69	92 72	72 86 71	68	70 92 69	92 69	72 92 68	71 91 68	72 97 70	69	95 71	96 72	70	70	70	70	68	65	69	71	71	69	69	68	65	75 62	58	68.8

Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

% Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO.Ralefach, 9 28 34-900

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU

# NOV - 5 1934 WERSITY OF ILLINOIS

## SOUTH CAROLINA SECTION.

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G. C. MERCHANT.

VOL. XXXVII. COLUMBIA, S. C., SEPTEMBER, 1934.

No. 9

CLIMATOLOGICAL

#### GENERAL SUMMARY.

Rainfall was somewhat deficient and temperatures averaged considerably above normal for the Section, as a whole.

The month opened cool, but it was generally warm from the 9th to the close. Light to moderate rains occurred at frequent intervals throughout the month, though heavy in places, especially on the 15th. Cotton picking continued active in southern and eastern counties, and began to make headway elsewhere by the 20th; however, cloudiness and showers interrupted this work at intervals. By the 30th picking was nearly finished on the coastal plain, and the bulk of a satisfactory crop had been gathered in southern and eastern interior portions. Insufficient sunshine caused considerable boll rot and weevil increase in some northwestern localities, materially reducing yield from the August expectation. Ginning was reported comparatively slow, but was quite active near the close of the month. Early corn, mostly poor, was housed by the last week; intermediate and late crops showed much improvement, but there was heavy damage by worms in places. Fodder pulling was completed and much good hay was cut, with some damage to curing from unfavorable weather conditions. Tobacco curing was finished, with heavy sales and good prices. A very good erop of commercial peppers was reported. Fall grain sowing made favorable progress, extending into upper sections the last two weeks; soil was in good condition for germination. An unusually good yield of sweet potatoes is in prospect, and digging began the latter part of the month. Irish potatoes were fair to good, except poor in some southern and eastern sections. Harvesting of peas and peanuts, and sorghum and ribbon cane syrup making made good progress from the 10th. Crop yields were considerably reduced in some central Piedmont localities by unfavorable conditions. Late gardens and truck thrived, and vegetables and fruits were plentiful. Northern apple production ranged from poor to good. Pastures afforded ample grazing.

#### TEMPERATURE.

The monthly mean for the Section, 43 stations reporting, was 75.7°, or 1.2° above normal. The highest temperature was 96° at Ferguson, Orangeburg County, on the 5th and 12th; at Garnett, Hampton County, on the 28th; at Kingstree, Williamsburg County, on the 28th; at Society Hill, Darlington County, on the 27th; at Little Mountain, Newberry County, on the 11th, and at Santuck, Union County, on the 29th. The first two days were cool, but daily temperatures thereafter ay-

eraged normal or above, with plus departures as high as 11° Relast week. The lowest temperature was 48° at Caesars Head on the 2d, and at Long Creek, Oconce County, on the 2d and 3d.

#### PRECIPITATION.

The average for the Section, 55 stations reporting, was 3.55 inches, or 0.55 inch below normal. Monthly rainfall amounts ranged from normal to below in all sections, except in mountainous portions of extreme northwestern counties and in extreme eastern counties where amounts ranged from over 5 inches to over 12 inches. The greatest monthly amount was 12.59 inches at Caesars Head, Greenville County, and the greatest 24-hour amount was 6.00 inches at the same place on the 13th. Monthly amounts were less than 2.00 inches in portions of Lexington, Saluda, Newberry, Edgefield and adjoining counties, and at a few places elsewhere in central and northern portions of the State. The least local monthly amount was 0.76 inch at Edgefield. The average number of rainy days was 6, one less than the normal number.

Killed by Lightning.—On the 12th, James Wright, young negro golf caddle, was instantly killed on the Sunset Country Club at Sumter, about 4:30 p. m. At the same time, Hugh C. Haynsworth, Sumter Attorney, was slightly shocked.

Damage by Lightning.—The barn of J. H. Clary near Chappells in Saluda County was struck and fired on the 12th. Barn and contents were a total loss, estimated at \$300.

#### RIVER CONDITIONS.

The Santee River was in moderate flood at Rimini several times during the month, but the flood stage was only slightly exceeded. No damage was reported. Stages at other river stations over the State were generally moderate to low.

#### MISCELLANEOUS PHENOMENA (dates)

Halos - Lunar: Charleston, 21; Columbia, 19. Solar: Nene reported.

Fog (dense).—Beaufort (near), 27; Bishopville, 10, 12, 13, 18, 20; Caesars Head, 29; Catawba, 14, 19, 20, 21, 22, 23, 25, 26; Cheraw, 13; Greenville, 10; Kershaw, 6, 13, 20, 21, 22; Santuck, 6, 9, 13, 19, 21, 22, 25; Spartanburg, 27; Winnsham, 18

#### PRESSURE, WIND, HUMIDITY AND SUNSHINF.

1	Atn (red	osphe luced	ric r to se	a-level	e )		Win	d 		hu	midi	ty	ge of sunshin
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage
Asheville, N. C Augusta, Ga Charleston, S. C. Charlotte, N. C. Columbia, S. C. Savannah, Ga Wilmington, N. C. Means and ex-) tremes.	30, 07 30, 04 30, 04 30, 06 30, 05 30, 03 30, 05	30, 39 30, 31 30, 26 30, 38 30, 35 30, 26 30, 30	1 1 1 1 1	29. 80 29. 78 29. 79 29. 79 29. 80 29. 80 29. 74	16	6. 0 5. 0 9. 2 6. 0 6. 1 8. 3 7. 2 6. 8	18 18 30 18 21 21 27 30	s. ne. se. sw. se se. w.	29 14 15 4 14 14 30	91 87 86 86 91 89 90	54 57 70 61 63 60 70	74 69 84 71 74 80 87	63 82 70 68 57 63 56

39 3

#### Climatological Data for September, 1934.

					limat	ologi	cal I	ata	for S	epte	mber,	1934								
	1		record.		l'emper	ature,	in deg	rees F	ahr.		Preci	pitation.	in ine	hes.	Nun	ber	of da	ays.	tion	
Stations.	Counties.	Elevation, feet.	Length of rec	Меап.	Departure from the normal.	Highest.	Date.	Lowert.	Dute.	Createst daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall.	With precipition (0.01 in. or more).	Clear.	Partiy cloudy.	Cloudy.	Prevailing direction of which.	Observers.
Eastern Portion,						1														
Beaufort (near)‡‡ Bishopville Blackviiie Charleston Cherny	Beaufort	21 224 296 48 144	54 51 64 53	78. 0 75. 4 78. 1 78. 2 76. 0	+0.7 +2.2 +1.6 +2.4	94 89 95 91 94	†28 4 †27 17 11	60 56 57 63 54	1 1 1 1 1	23 26 29 20 34	2, 82 4, 66 2, 54 4, 04 3, 26	-2.36 -1.75 -0.49 -0.49	1. 00 2.33 1.24 1. 84 1. 28	0 0 0 0	4 6 7 7 4	18 19 12 3	11 9 14 15	6 2 4 12	e. 110. S.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews U. S. Weather Bureau. Roland D. Powe.
Conway Darlington Elfingham Fergusoni‡	Horry Darlington Florence Orangeburg	25 175 106 63	46 40 44 49	76. 8 76. 8	+1.8 +2.1 +2.8	93 91 96	†17 † 5	59 56 56	1 1 1	26 27 	5.45 4.20 2.76 4.70	$^{+0.38}_{-0.23}_{-1.82}_{+0.48}$	2.25 1.24 1.31 2.60	0 0 0 0	8 8 4 5	18 8 17	0 13 	12 9 	se. ne.	Perry C. Quattlebann. D. C. McCall. Wm. B. Gillespie, Henry C. Savage.
Florence 1 Florence 2 Garnett Kingstree Marion	Florencedo	136 136 82 54 68	53 20 18 54 11	75. 8 	+0.6 +0.4 +2.8	92 <sup>b</sup> 96 96 96 94	28 28 28 28	55 56 56 51	2 1 1 1	30 133 29 33	4. 27 3. 63 3. 54 5. 56 6, 59	-0.04 -0.68 -2.75 +1.21	1. 10 1. 00 2. 00 2. 56 2. 40	0 0 0 0	77877	16 16 17 16	13 9  8 12	1 5 10 2	SW. s. W. s.	11. K. Gilbert. Pee Dee Experiment Sta. Maner B. Robert. Mrs. Bilen Scott. W. R. Wells, Jr.
Mars Bluff Bridge Orangeburg Pinopolis** Ribnini	Florence Orangeburg Berkeley Sumter	92 264 54 97	12 20 88 21	76. 1 74. 0	+0.3 -0.3	90 86	27 7	58 60	1 1 	28	4.38 4.10 3.58 2.50	-0, 42 -1, 11 -2, 83	2, 28 2, 12 2, 72 1, 45	0 0 0 0	8 5 6 3	10 17	 7 0	13 13	s. sə.	Joseph L. Shaw. U.S. Fisheries Station. Miss E. P. Ravenel. Fitzhugh L. Sweatman.
Society Hill Summerville Sumter Wedge deld Vennssee	Durlington Dorchester. Sumter Sumter	192 75 169 249 24	44 37 13 44 46	477.0 77.2 76.4 75.6 77.4	+3.3 +1.7 +2.0 +1.3 +1.6	95 95 92 90 94	27 27 †27 † 4 28	655 54 54 57	1 1 1 1 1	432 32 28 28 28	3. 12 2. 39 2. 14 4. 40 4. 54	$ \begin{array}{r} -1.24 \\ -2.81 \\ -2.09 \\ +0.22 \\ -0.02 \end{array} $	1. 17 1. 06 0. 58 1. 70 2. 35	0 0 0 0	9 7 6 6	9 11 4 21 13	15 12 20 7 7	6 7 6 2 10	e. e. 114. W. Se.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Dept. W. Hampton Ramsey W. C. Hutson.
DI -1 1	extremes			76.8	+1.5	96	† 5	51	1	34	3.88	-0,76	2 72	0	6	13	10	7	s.	
Western Portion.			2000000																	
Aiken Anderson Bhirrs Cesars Hendii Callionn Falls Canden	Alken Anderson Fairfield Greenville Abbeville Kershaw	527 764 293 3118 508 222	73 42 20 19 36 85	77. 5 75. 2 	+2.7 +1.0  +0.9 +3.8	91 91 84 95 94	12 29 118	61 55 48 55 55	1 2 2 3 1	24 28  26 31 32	4.32 2.37 4.38 12.59 2.19 5.01	+0.72 -1.01 +1.19 -1.67 +1.05	2. 03 1. 18 1. 45 6, 00 1. 46 1. 70	0 0 0 0 0	7 5 7 11 5 8	20 21 7 14	6 4 11 9	12 7	ne w. ne, w	Frank B. McCoy. H. H. Russell. Sarah L. Owens. Clyde C. Clark. L. M. Parker. Henry A. Brown.
Calawba	York	562 402 758 850 351	29 30 7 43 48	72.8 75.0 77.0	+2.1 +2.5	91 91 91 91	12 †11 11	53 54 58	 1 3 1	33 30 25	2.18 1.99 6.06 2.49 1.97	-1.58 -1.69 -1.54 -1.48	1. 19 1. 30 2. 47 0. 80 0. 98	0 0 0 0	7 8 5 9 9	22 15 6	6 3 18	 2 12 6	w. ne.	James C. Faris. William Spearman. Spartanburg Water Works Prof. F. H. H. Culhonn. U. S. Weather Burenn.
Crescent Edgetield Ellenton Gaston Shonis II. Greenville	Spartanburg Edgefield Aiken Cherokee Greenville	630 550 76 680 1039	8 22 8 32 51	74.3	+3.7	90	†ii	56	2	25	3. 26 0. 76 1. 09 3. 67 1. 72	-2.81 +0.15 -1.96	1. 92 0. 47 0. 46 1. 21 0. 90	0 0 0 0	5 3 4 7 9	12	10	8	ne.	Duke Power Co. J. C. Doscher. A. A. Foreman. Southern Public Utilities. Walter R. Hall.
Greenwood Heath Springs Kershuw Landrum Landrum	Greenwood. Lancaster, Kershaw Spartanhing, Lancens	568 500 1063 589	51 33 19 20 17	75.8 73.4 75.3 78.2 76.3	+2.4 $0.0$ $+0.8$ $+0.2$ $+2.5$	94 88 92 88 93	†11 † 4 11 11 †11	53 51 51 53 55	2 1 1 2 2	29 29 31 28 32	3, 02 3, 18 3, 74 3, 44 2, 14	-0.62 -0.22 -0.07 -1.29 -1.99	2. 12 1. 14 1. 99 1. 21 1. 12	0 0 0 0	5 6 8 5 3	12 7 3 20 20	0 2 0 9 9	18 21 27 1	w. w. e. n. e.	M. M. Calbonn. J. Marvin Bowers. John W. Hamet. R. Hartwell Wilds, D.D.S, L. G. Roff.
Little Mountain Long Creek New berry Felzer Saluda Santuck	Newberry Oconee , Newberry Auderson Saluda Union	711 1000 502 850 536 512	31 31 33 42	75. 0 *71. 2 77. 2  76. 4 75. 6	+0.2 +2.0 +1.8 +2.0	96 *88 95  93 96	11 †12 28  †11 29	51 *48 54 54 49	† 1 † 2 † 1 1	31 *33 31  30 37	2.35 5.76 1.99 2.80 1.80 3.26	-1.09 -1.46 -0.76 -1.92 -0.40	1, 10 1, 98 0, 63 1, 31 1, 20 0, 86	0 0 0 0 0	5 9 10 8 4 8	17 19 8  24 6	10 8 19  4 19	3 3 2 5	s. w. sw.	Miss Elberta Sease, Mrs. K. L. Burton, John H. Baxter, Earl J. Frick, B. B. Blease, W. O. Jeter,
Spartanburg. Trenton. Wallialla Winnsboro. Wintbrop College ‡	Spartanburg Edgefield Ocouse Fairfield York	824 620 1061 545 690	58 42 35 41 35	74. 4 76. 8 73. 4 76. 0 75. 0	+2.2 +1.5 +1.7 +2.1 +1.7	92 94 92 91 93	12 †27 12 † 4 †11	55 54 51 54 58	† 1 8 1 2	28 31 34 27 30	1.83 1.84 7.08 4.17 2.10	-1.89 -2.30 +1.94 -0.55 -1.31	1.42 0.70 3.48 1.70 0.60	0 0 0 0	8 3 11 6 6	8 8 18 2 10	16 21 11 24 20	6 1 1 4 0	ne. se. sw. ne. s.	U. S. Weather Bureau. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Division means and Section means and	extremes			74.9 75.7	+1.2	96 96	†11	48 48	† 2	37 37	3, 31 3, 55	-0.41 -0.55	6.00	0	6	13	10	7	ne. ne.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (e. b. c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. † Also on other dates. † Received too late to be included in means and summaries. \*\* Temperature data are from observed readings of the dry lumb; means are computed from observed readings. Illustrations are as follows: Of Gaston Shoals, Blacksburg; of Windtrop College, Rock Hill; of Ferguson, Eutawyille; of Casar's Head, Greenville; of Beaufort (near), Burton. T. Precipitation is less than 0.01 inch of rain or melted snow.

#### Dally Precipitation for September, 1934.

															1	JUN C	of me	onth															
Stations.	Drainage- basins.	1	2	3	4	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	28	24	25	26	27	28	29	80	81	101
Eastern Partion. afort (near). hopyllle. ck ville	Const			T.	T.	. 28 2	2. 88 . 96 . 59	. 49	.70 .02 .72 1.86	1.00 T. 1.84	.04 T		.22	T.	. 80 T. . 09		.32 .61 1.24 .21 1.28 2.25	T. .03	. 96 T			 . 10 T.	T.	T.	1	T.			T.		 5		2.82 4.66 2.64 4.04 3.20 5.45
llington	Peedee						. 93 . 41 2. 60 . 40	1. 24 .20 1. 10	. 45					.10	. 19	. 10 2. 00	1, 22 1, 31 1, 41 1, 71 1,00 ,50	. 13	. 25											.66			2.76 4.70 4.27 3.13 8.54 5.66
igstree       riou rs Bluff Bridge ingeburg iopolis	Peedeedo Edisto Cooper						. 12 1. 24 2. 12	. 50	. 15	. 04	.02			T.	. 15	. 85 . 06 . 04 2. 72	2. 22 1. 90 T.	.02	1.39						1 1							,	6,59 4,18 4,10 3,58 2,50
aini        lety	Wateree		T.			.80	. 37	.05				Ť.	. 26		T.	. 15 . 16 . 19 . 58 1. 70	1. 45 3 1. 15 9 1. 06 4 . 49 0 . 55	.06								Ť.							3. 12 2. 59 2. 14 4. 40 4. 54
Western Portion. cen derson dirs       surs Hend lhom Fulls       mden	Broad				17		1.44	1, 36	. 62					.38 6.00	.26	. 69	1.4	5	i . i	5		7.1	9 .10				. 52	5 . 51	2. 50	1.5			2.87 4.28 12.59 2.19 5.01
tuwin      nppeils      erokee (neur) mson College dumbla ***	Carnwba Sainda Broad				.11	. 10	.11	. 02	. 4		.24		T.	.01 1.48	1 .15		7 1. 3 0 2. 4 5 . 0 6 . 0	9 7 9 3 T	. 9	3								c	. £8		6 T	<b></b>	2.18 1.99 6.06 2.49 1.97 3.26
gelield       lenton	Savannah Savannah Broad Sahnda do					.02 T.	. 38	. 13	3				.07	.69	9 . 4 8 . 0	1 T.	2 .4 1.2 .9 1 2.1	6 1 .4 0 T	4 .7	5					5	.3	0 .0	E	e T.	0	fi	3	1, 09 3, 67 1, 79 2, 02 3, 18
ershaw      ndram nrens (tle Mountain ong Creek wiserry dzer	Saluda Saluda Savannah						. 2:	5	2				T.	.3	7 .2	1 .2 .4 8 1.1 10 .3	21 1. 9 18 1. 2 12 30	1		7						Ť	T.	2 T		1.0	9 .0	0 3 4	3,74 3,44 2,14 2,35 5,76 1,99 2,80
hida intuck intrantairing	do				.1	6 T.	. 3 . 4 T.	5 T	3 T	0	3		. 20	0 . 0 5 2 T.	5 1. 2 69 . 6 26 . 1 T	20 04 15 T	38 .8 1.4 70	36 12 T	86								T	10 .	T T T	. T	14:		

Except as otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of observation. |||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight. \* Precipitation included in the next following measurement. Separate dates of fulls not recorded. T. Trace, or less than 0 of inch.

#### COMPARATIVE DATA FOR SEPTEMBER.

														7		m	A			Droo	ipitati	on		Num	her o	of Da	VS
	1	Temper	ture	1		Preci	ipitati	on		Num	ber	of Da	ays			Tempera	ture			1100	ipitati	- I				-	-
Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfall	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest	Least	Average	Precip61 inch or more	Clear	Partly Cloudy	Cloudy
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Reference letters, (\*, b, \*), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

§ B.O., Raleigh, 10–26-34—900

## CLIMATOLOGICAL DATA

SOUTH CAROLINA SECTION.

G. C. MERCHANT.

COLUMBIA, S. C., OCTOBER, 1934. Vol., XXXVII.

No. 10

#### GENERAL SUMMARY.

Temperature averaged exactly normal, and rainfall averaged somewhat above the normal.

Showers were general from the 5th to 7th, followed by heavy to excessive rains on the 10th and 11th, and showers were fairly general again on the 26th. Rainfall distribution was irregular. Monthly amounts were mostly deficient in the eastern portion, but averaged nearly two inches above normal in the western portion of the State. Cotton picking and ginning progressed favorably and were about completed in central and southern counties by the 10th, but in some northwestern sections too much rain and cloudiness delayed opening and considerable boll rot and deterioration occurred. However, more favorable weather prevailed over the Piedmont section the latter part of the month, when picking and ginning were rushed practically to completion by the 31st. The corn crop was only fair, on the whole. Fall plowing and grain sowing made good progress the last two weeks, and early planted rye, oats and wheat came to good stands. The forage harvest was about finished, with generally good results, but there was some damage to curing in wet northwestern localities. The sweet potato yield is reported especially good, as a rule, and digging was active. Harvesting of peanuts and sorghum and ribbon cane syrup making proceeded satisfactorily. Apples and pears were damaged to some extent by too much moisture. Late truck and garden production was unusually good, until retarded by frost on the 15th in northeastern localities, and generally by heavy to killing frosts on the 29th to the coastal plain. Pastures were in good to ex- Trenton, 27; Walhalla, 16. Solar: None reported. cellent condition, except in some dry eastern sections.

#### TEMPERATURE.

The monthly mean for the Section, 42 stations reporting, was 63.6°, exactly normal. The highest temperature was 91° at Blackville on the 22d. The warm periods were generally from the 5th to 12th, 18th to 27th and on the 31st, when the daily mean temperatures ranged from 5° to 11° above normal. The lowest temperature was 27° at Caesars Head on the 28th and at Long Creek on the 29th. The cold periods were on the 1st and 2d, from 13th to 16th and 28th to 30th, when daily mean temperatures ranged from 5° to 14° below normal.

Heavy to killing frost occurred at many places throughout the State, except on the immediate coast, from the 28th to 30th. This occurrence was two weeks, or more, ahead of average dates in central and southern portions.

#### PRECIPITATION.

The average for the Section, 55 stations reporting, was 3.63 inches, or 0.60 inch above normal. The monthly measurements ranged from 3 to over 8 inches in most northwestern counties, while in eastern and some southern counties, amounts ranged downward from 3 inches to less than one inch, except over 5 inches in the vicinity of Charleston. The greatest local monthly amount was 8.21 inches at Crescent, Spartanburg County; least local monthly amount, 0.77 inch at Marion. The greatest amount during any 24 hours was 5.56 inches at Winthrop College on the 10th. The average number of rainy days was 5, the normal number.

#### RIVER CONDITIONS.

Moderate floods occurred in the upper Saluda, Broad, Congaree and Santee Rivers after heavy to excessive rains on the 10th and 11th. Crests at gaging stations were as follows: At Chappells on the Saluda, 16.1 feet on 12th (flood stage, 14.0 feet); at Blairs on the Broad, 26.2 feet during night of 12th (flood stage 15.0 feet); at Columbia on the Congaree, 19.3 feet on 12th (flood stage, 15.0 feet); at Rimini on the Santee, 18.0 feet on the 16th and at Ferguson, 13.8 feet on 17th (flood stages, 12.0 feet). Flood losses approximated \$3,000, and the value of movable property saved by warnings was estimated at \$12,000. Flood stages were not reported from other rivers in the State outside of the Santee River System.

#### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Columbia, 17; Laurens, 17; Newberry 17;

Fog (dense). - Charleston, 18; Columbia, 12; Spartanburg, 6, 7.

PRESS	URE	, wi	ND	, HU	MII	YTIC	ANI	o su	NSI	MIE	E.		
	Atn (red	osphe luced (	ric p	a-level	e )		Win	เส้		Re	elati v midi	ty	ge of sunshine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage sun
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Difference Parker 10. Oct	ober, regr.		
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			record.		Temper	ature.	in des	grees F	anr.		Preci	pitation.	in ine	hes.	Nun	itier	of d	ays.	ction	
Stations.	Counties.	Elevation, feet.	Length of re	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Pate.	Greguest daily range.	Foral.	Departure from the normal.	Ground in 24 hours.	Toral snowfall. unmelted.	With precipit on (0.01 m. or more)	Clear.	Partly cloudy.	Cloudy.	Prevailing direction of wind.	Observers.
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Little Mountain, Long Creek Newberry Pelzer Salndu Sautnek	Newberry Oconee Newberry Anderson Saludu Union	711 1000 502 850 536 512	31 31 33 33 42	64.0 59.6 63.0 61.8 61.6	+0.1 -0.4 -1.1 -0.3	85 84 86 85 87	†22 22 9 9	36 27 33 32 28	29 29 †29 28 29	89 48 88 	5. 12 7. 24 4. 22 5. 83 4. 87 6. 50	+2.19 +1.44 +2.58 +1.89 +3.45	3.00 4.14 2.15 2.32 3.85 5.02	0 0 0 0 0	5 6 5 6 4 6	22 18 22 26 15	9 4  0 10	5 4 5 5 6	n. e, w sw.	MIss Ell-erta Sease, Mrs. K. L. Burton, John H. Baxter, Earl J. Friek, B. B. Blease, W. O. Jeter,
Spartinburg. Trenton Wilhalla Winnsboro. Winfhrip College	Spartauburg Edgefield Oconee Fairfield York	620 1061 545 690		62.0 65.3 62.1 62.5 62.4	+1.1 +0.6 +1.3 -0.1 -0.1	83 87 86 84 89	9 21 †12 † 9 1	34 35 28 35 35	29 29 29 29 729	35 41 42 81 38	4,75 3,80 7,35 5,20 6,96	+2.00 +0.28 +3.92 -2.08 +4.21	2, 22 2, 00 3, 31 3, 00 5, 56	0 0 0 0	6 6 6 5	18 13 20 19 18	7 14 6 6 9	6 4 5 6 4	ne. sv. ne. n.	U. S. Weather Bureau. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
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The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. Also on other dates. If leceived too late to be included in means and summaries. \*\*Temperature data are from observed readings of the dry hub; means are compared to the properties of the dry hub; means are compared to the properties of the dry hub; means are compared to the properties of the dry hub; and the properties of the proper

Daily Precipitation for October, 1934.

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Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. || || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the 24 hour period, midnight to midnight. \*Precipitation included in the next following measurement. Isoparate dates of falls not recorded. T. Trace, or less than 0.01 inch.

								C	OMI	PAR	ATI	VE	DA	TA FO	)R 0	CTOBE	R.										
		Tempera	ature			Prec	ipitatio	on		Num	ber	of Da	ays			Tempera	iture			Prec	ipitati	011		Nun	ber	of Da	ys
Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precip01 inch or more	Clear	Partly Cloudy	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precipul	Clear	Partly	Cloudy
1887 1449 1590 1890 1892 1492 1493 1894 1895 1495 1497 1498 1599 1911 1492 1914 1915 1907 1908 1908	60. 8 63. 0 60. 2 63. 8 64. 4 64. 2 61. 3 65. 8 62. 9 64. 2 67. 6 62. 4 63. 2 62. 4 63. 2 61. 2 61. 2 61. 2 61. 2	-2.2 8 -2.8 -0.6 6 -3.4 +0.2 +0.8 8 +0.6 6 -2.3 3 +2.2 3 +2.2 -0.7 +0.6 6 +4.0 6 -1.2 -0.4 4 -1.6 6 -1.7 -2.4 4 -1.6 6 -1.7 -2.4 4 -2.4 4 +2.9 +3.9 9 +3.9 9	91 88 88 90 92 89 90 95 95 91 96 91 95 92 93 98 98 98 99 90	30 \$1 27 22 28 28 28 28 28 28 28 29 20 20 21 22 25 28 28 28 28 29 29 29 29 29 29 29 29 29 29	5. 96 4. 18 1. 65 4. 06 1. 63 0. 60 4. 92 4. 95 1. 15 1. 41 3. 82 5. 60 2. 63 1. 10 1. 97 4. 26 3. 1. 10 1. 97 4. 26 3. 69 2. 43 4. 25 5. 89 4. 26 3. 60 5. 89 4. 26 5. 89 5. 89 5. 89 6. 80 6.	+2.93 +1.15 -1.38 +1.03 -1.40 -2.43 +1.82 -1.62 +0.20 +0.79 +1.97 +0.62 -2.14 +1.37 -0.40 -1.93 -1.06 -2.30 +1.193 -1.66 -2.30 +1.136 +1.8	10. 11 7. 83 8. 91 7. 37 4. 20 1. 78 8. 16 8. 84 7. 81 9. 63 4. 75 5. 20 9. 42 9. 42 9. 42 9. 32 9. 42 9. 32	2. 15 2. 01 0. 10 0. 99 0. 18 0. 00 0. 72 0. 50 0. 09 1. 58 1. 97 T. 2. 24 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 0. 60 1. 72 1. 79 1. 79 1. 79 1. 70 1.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	873 553445969375336736668	18 20 20 15 14 14 14 14 12 22 19 18 23 15 14 19 19 23 200 12	1.61.888.1776.565667765179	65 4 8 9 9 10 111 3 7 7 7 3 10 11 5 6 6 3 4 4 10 10	1912 1913 1914 1915 1916 1917 1918 1919 1921 1923 1923 1924 1925 1928 1928 1929 1930 1930 1931 1932 1938 1939 1939 1939 1939 1939 1939 1939	65.1 65.8 66.4 61.1 60.5 65.9 63.7 63.9 63.6	+1.4 -1.1 +1.1 +3.4 +0.4 +0.4 +0.7 +10.1 +10.1 +0.9 -0.7 -1.4 +0.3 +1.5 +2.2 +2.8 -2.5 -2.5 +2.8 -0.0	94 95 92 93 92 90 93 101 92 90 94 90 98 96 97 98 98 98 98 98 99 98 99 98	32 28 26 27 31 22 33 44 25 27 31 29 28 26 32 32 32 32 32 32 32 32 32 32 32 32 32	2. 21 3. 56 3. 44 4. 95 2. 54 7. 50 3. 75 2. 53 0. 76 1. 79 1. 14 1. 50 2. 93 1. 44 3. 25 1. 91 7. 31 2. 63 9. 1. 79 1. 70 1. 80 8. 63 9. 1. 79 1. 80 8. 63 9. 1. 79 9. 1. 70 8. 1. 80 8. 80 8. 80 8. 80 8. 80 8. 80 8. 80 8. 80 8. 80 8. 80 8. 80 8.	-0, 82 +0, 53 +0, 41 +1, 92 -0, 49 -1, 53 +0, 72 -0, 50 -2, 27 -1, 24 +1, 25 -1, 153 -0, 10 -1, 159 +0, 22 -1, 12 +4, 28 -0, 85 -2, 23 +0, 60	_	0, 52 1, 11 1, 17 2, 54 0, 88 T 0, 50 0, 18 0, 20 0, 12 0, 50 0, 70 0, 60 0, 49 0, 62 0, 75 T, 3, 47 0, 77	T. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5688545524884285456536445	18 19 13 18 16 23 15 13 24 21 18 18 28 15 17 20 17 21 18 18 29 20 21 18 19 20 19 20 19 20 19 20 20 20 20 20 20 20 20 20 20 20 20 20	4 E 77 75 8 10 4 4 4 5 6 8 7 7 7 6 8 5 5 5 6 5 5 4 6	9611683338368775921568748666

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Reference letters, (\*, b, \*), appearing in the table indicate number of days missing; for example, b represents two days missing, etc.

\$\mathfrak{W}\$ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

WBO, Raleigh, 11-26-34—900

# CLIMATOLOGICAL DATA OF ILLINOIS

SOUTH CAROLINA SECTION.

33

G. C. MERCHANT.

Vol. XXXVII. COLUMBIA, S. C., NOVEMBER, 1934.

#### GENERAL SUMMARY.

Both temperature and rainfall averaged somewhat above the normal for the Section, as a whole.

Rainfall was generally light at intervals until the 29th and 30th, when rains were especially heavy in some eastern localities. Monthly precipitation amounts were eonsiderably above normal in the eastern part of the State and below normal in most western sections, the reverse of last month's distribution. Cotton picking was finished in northern portion about the 15th. Sorghum and ribbon cane syrup making extended over the first 10 days. Winter grain sowing was nearly completed by the 25th, followed by good stands, mostly, though in some eastern and central localities grain and winter truck were in need of rain until near the close of the month. Pastures deteriorated, but fair grazing was had in places. Good crops of late cabbage and beans were harvested on the southern coast. Plowing made hard. Light hog butchering occurred from the 11th to 15th, generally. Apples and fall truck were marketed. The woods were generally bare by the 15th.

#### TEMPERATURE.

The monthly mean for the Section, determined from reports of 40 stations, was 55.2°, or 1.5° above normal. The highest temperature was 85° at Garnett, Hampton County, on the 4th and 8th, and at Blackville and Darlington on the 8th. The warm periods were on the 1st, 4th to 10th, 18th to 23d, and 27th to 30th, when the daily mean temperatures ranged from  $5^{\circ}$  to  $23^{\circ}$  above normal. The lowest temperature was  $18^{\circ}$ at Santuck, Union County, on the 15th. The eold periods were on the 2d and 3d, 11th to 16th, and 25th to 26th, with daily mean temperatures ranging from 5° to 16° below normal. Killing frosts extended to the southern coast from the 13th to 16th, having occurred in other portions of the State the last few days of the preceding month.

#### PRECIPITATION.

The average for the Section, 54 stations reporting, was 2.73 inches, or 0.41 inch above normal. In eastern and extreme northern portions monthly amounts ranged from over 2.00 inches to over 7.00 inches, while in western portion amounts ranged generally from 2.00 inches to less than 0.50 inch. The greatest local monthly amount was 7.82 inches at Caesars Head; least local monthly amount, trace at Trenton, Edgefield

County. The greatest amount during any 24 hours was 5.90 inches at Camden on the 28th and 29th, which was the greatest 24-hour rainfall of record for any station in the State during any November. The average number of rainy days was bear normal 5. No snowfall was reported.

Damage and Injury by Lightning.—The Humphries Gin Company's plant, six miles from Gaffney, was destroyed by fire early a. m., of the 1st, eaused by lightning. The loss was estimated at \$15,000, partly covered by insurance. At the same time and place, Roy Phillips, watehman, was shocked, but reeovered in time to escape from the burning building. On the 10th, about 9 p.m., barn and feedstuff of Drury Lovelace, farmer of the Mount Pilgrim section of Newberry County, were burned when the building was struck by lightning; loss of feedstuff estimated at \$750, value of building destroyed, about \$300.

Damage from Hailstorm.—On 1st, about 4 p. m., a moderate storm occurred in the City of Orangeburg. A few trees were uprooted, a plate glass store window was smashed, the roof of a building damaged, and some power and telephone lines were blown down. Hail, while not large, was unusually heavy and banked in places; estimated damage, altogether, about \$500, mostly from wind.

#### RIVER CONDITIONS.

Stages were low to moderate in all rivers, except at Rimini good progress, except in places where the soil was too dry and and Ferguson on the Santee River which averaged somewhat above normal. Flood stage to slightly above was reached at Rimini several times during the month; no damage resulted. Incident to heavy rains the last two days, rivers were rising at the close of the month, but flood stages were not reached.

#### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 16, 21; Columbia, 20; Garnett, 22; Walhalla, 26. Solar: Columbia, 26.

Fog (dense). - Catawba, 28, 29, 30; Charleston, 29; Columbia, 30; Garnett, 18, 19, 20, 29; Laurens, 29; Pelzer, 28; Spartanburg, 3, 4, 29, 30; Trenton, 28, 29, 30; Winnsboro, 28; Yemassee, 19.

Hail (light).—Bishopville, 1; Landrum, 10; Spartanburg, 9; (heavy), Orangeburg, 1.

#### PRESSURE, WIND, HUMIDITY AND SUNSHINE.

				pressur a-leve			Wir	nd			elati midi		ge of sunshine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage cuns
Asheville, N. C Augusta, Ga Charleston, S. C. Charlotte, N. C. Columbia, S. C. Sayannah, Ga	30. 18 30. 15 30. 15 30. 16 30. 16 30. 14	30, 56 30, 47 30, 47 30, 50 30, 51 30, 46	15 15 15 15 15	29. 72 29. 81 29. 86 29. 78 29. 83 29. 87	1	10.0 6 3 11.0 7.7 7.6 10.6	32 21 30 22 20 26	se. sw. n. n. sw.	22 1 14 14 1 1	80 82 78 77 83 82	51 50 59 53 51 53	64 60 74 60 60	72 76 72
Wilmington, N. C. Means and ex- / tremes	30.14 30.16	30, 48	15	29. 78 29. 78 29. 72	7 30	9.5	32 32	s. se.	*22	79 80	54 58	74 66	74

<sup>\*</sup> Also from s. on 4th.

#### Climatological Data for November, 1934.

	1	1	1 -	1						14 07	embe	r, 193	4.							
			record,		Tempe	rature	in de	grees	Fahr.		Prec	ipitation	ı, in in	ches.	Nm	nber	of d	ays.	tion	
Stations.	Counties.	Elevation, feet.	Length of re	Меап.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest / dully range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall,	With precipit on (0.01 in. or more).	Clear.	Partly cloudy.	Cloudy.	Prevailing direction or wind.	Observers.
Eastern Partion.		1										ĺ								
Beaufort (near)‡‡††. Bishopville Blackville Charleston. Cherny	Baruwell	224 296 48 144	54 51 64 53	60. 4 56. 8 58. 6 59. 7 55. 6	+1.5 +3.0 +1.6 +3.6	82 81 85 81 83	1 8 8 4 8	31 26 27 35 23	16 16 13 15 16	36 40 44 30 50	1. 37 2. 41 2. 98 2. 64 5. 20	-0.74 +0.95 +0.50 +3.01	0.60 1.82 2.50 1.74 3.80	0 0 0 0	5 5 8 5 6	17 19 19 17	11 5 7 3	2 6 4 10	e. be. n.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews U. S. Weather Borena. Round D. Powe.
Conway Darlington Effingtom Ferguson II	Florence Orangeburg	175	46 40 44 49	57.8 55.8	+3.2 +2.8	84 85 	1 8 † 8	24 21	16 16	45 49 	5.58 2.65 2.70 2.21	+3.32 +0.54 +0.60 +0.07	2.72 1.95 1.80 1.60	0 0 0 0	5 5 4	18 20  20	0 4 3	12 6 	ne.	Perry C. Quattlebnum. D. C. McCall. Wm. B. Gillespie, E. J. Karrick.
Florence 1 Florence 2 Garnett Kingstree Marion	Florence do lnmpton. Williamsburg Marion	136 136 82 54 68	53 20 38 54 11	56.0 *58.6 58.8 *58.8	+1.9 +1.4 +3.9	*85 83 882	4 † 4 † 8 † 5	23 "20 22 834	16 16 16 †13	44 *48 47 835	2, 30 2, 57 1, 14 4, 62 2, 72	+0.09 +0.36 -1.35 +2.53	1.76 2.35 0.74 3.10 1.50	0 0 0 0	5 4 4 4	20 21 16 17	5 6 9 3	5 3 5 10	sw. w.	H. K. Gilbert. Pee Dee Experiment Sta. Miner B. Robert. Mrs. Ellen Scott. W. R. Wells, Jr.
Mars Bluff Bridge Oningeburg Pinopolis**	Florence	92 264 54 97	12 20 88 21	57. 6 55. 1	+2.7 +0.8	80 78	22 † 4	27 26	13 16	40	2.80 8.74 2.49 2.95	+2.21 +0.06 +1.07	1.59 2.15 2.00 2.00	0 0 0 0	5 7 4 5	19 17	0 8	11 5	ne.	Joseph L. Shaw. U.S. Fisheries Station. Miss E. P. Ravenel. Fitzhugh L. Sweatman.
Society Hill Summerville Sumter WedgeJeld Vennssee	Durlington Dorchester Sumter Sumter Hampton	192 75 169 249 24	44 37 13 44 46	*54. 2 57. 0 56. 5 56. 7 58. 2	+2.1 +1.3 +2.4 +2.6 +2.3	*83 84 83 82 84	† 8 4 8 8	22 21 21 26 22	†16 16 16 †13 †13	*52 48 46 42 45	4.44 2.28 2.36 3.00 2.15	+2.19 -0.03 +0.30 +0.92 -1.15	2. 95 1. 69 1. 38 2. 00 1. 91	0 0 0 0	8 3 6 5 3	18 15 16 20 18	2 6 10 5 1	10 9 4 5	w. n. e. w.	E. D. Fields, Jr. Clemson Coast Exp. Sta Sunter Water Dept. W. Hampton Ramsey W. C. Hutson.
Division means and  Western Portion.	extremes			57.2	+2.2	85	† 4	20	16	52	3.00	+0.79	3.80	0	5	18	5	7	119.	
Aiken Anderson Bhirs Casars Head #1 Calhonn Falls Camden	Aiken Anderson Fnirfield Greenville Abbeville Kerslmw	527 764 293 3118 508 222	73 42 20 19 86 85	58.1 54.6 49.0 52.8 54.0	+3.7 +2.0 +1.6 +1.9	81 79 74 80 83	8 8 7 8 8	27 28  23 23 23 22	12 †12 12 16 16	42 38  35 47 51	0.22 2.04 0.95 7.82 1.80 6.56	-2.32 -0.65 -1.30 -0.65 +4.22	0. 12 0. 50 0. 30 2. 00 0. 86 5. 90	0 0 0 0 0	7 6 5	17 19 19 15 21	4 1 3 5	10 8 10	e. w. sw. s	Frank B. McCoy, H. H. Russell, Sarah L. Owens, Clyde C. Clark, L. M. Parker, Henry A. Brown,
Chluwba Chuppells Cherokee (near) Chester Clemson College Columbia	York Newberry Spartanburg Chester Oconee Bicbhud	562 402 758 487 850 351	29 30 7 16 43 48	51. 4 53. 6 56. 7	+2.6 +2.7	79 81 81	**************************************	21 22 29	15 †13 18	48 45 27	2.54 0.97 2.62 8.27 3.18	+0 09 -1.28 -0.41 +1.20	1. 00 0. 58 0. 96 0. 75 2. 04	0 0 0	6	18 20 18	3 0 5	9 .	w.	James C. Fnris. Wittiam Spearman. Spartanlurg Water Works Anderson Weir. Prof. F. H. H. Cuthonn. U. S. Weather Burenu.
Crescent. Edgefield Ellenton Gaston Shouls 11. Greenville.	Spartanburg Edgefield Aiken Cherokee Greenville	630 550 76 680 1039	8 22 3 32 51	58.6	+4.0	78	······································	27	13	34	3.20 1 05 0.51 3.20 2.96	-1.29 +0.45 -0.22	1.79 0.41 0.45 1.18 0.98	0 0 0 0	6 .		::::			Duke Power Co. J. C. Doscher. A. A. Foreman. Southern Public Utilities. Walter R. Hall.
Greenwood	Greenwood Lancaster Kershaw Spartanburg Laurens	568 500 1063 589	51 33 19 20 17	654. 4 53. 4 54. 2 53. 4 53. 8	+2.5 +1.5 +1.5 +2.5 +2.9	*80 76 79 78 80	8 8 8 8	25 24 26 28 24	15 15 13 15 15	41 34 36 42 45	1.46 4.19 3.60 5.88 2.84	-1.21 +1.99 +1.55 +1.87 -0.06	0.84 2.28 2.81 1.46 1.09	0 0 0 0	6 4 7	18 20 12 18 19	0	16 8	e. n.	M. M. Calboun, J. Murvin Bowers, John W. Hamel, R. Hurtwell Wilds, D.D.S. L. G. Roff,
Little Monutain Long Creek New herry Pelzer Saluda Sanda	Newberry Oconee Newberry Anderson Saluda Union	711 1000 502 850 586 512	42 31 31 33 42	55.6 50.9 54.8 54.2 58.2	+2.0 +2.3 +1.5 +2.2	79 80 81 81 81	8 8 22 8 8	24 19 25  22 18	†18 15 †13 †15 15	38 46 44 48 50	0.90 3.32 0.79 1.93	-0.87 -1.24	0.30 0.98 0.28 0.96 0.75 0.47	0 0 0 0 0	6 8 7 6 8	18 20	5 3 4 0 5	7 8	n. e. w.	Miss Elberta Sease. Mrs. K. L. Burton. Join H. Baxter. Earl J. Frick. B. B. Blease. W. O. Jeter.
Sparianturg. Trenton Wallmita Winnsboro Winfilmop Collège ‡‡. Division means and	Spartauburg Edgefield Oconee Fnirifeld Vork	824 620 1061 545 690	58 42 35 41 35	51.8 54.0 54.0	+2.4 +1.4 +1.3 +2.2	78 82 79 80	8 8 8 8	27 27 21 28 24	15 15 15 †12 15	36 46 37 38	3.80 T. 4.10 1.26 2.34	+0.90 +2.45 +0.86 -0.96 -0.08	1.64 T. 1.92 0.82 0.62	0 0 0	0 8 6 7	20 17	3 12 2 9	8 4	sw sa. sw. ne.	U. S. Weather Bureau. Mrs. S. E. Long. H. W. Brandt. Rev. Oliver Johnson. W. T. Clawson.
Section means and				58. 7 55. 2	+1.6	83 85	8 † 4	18	15 15	51		-0.04 +0.41	5.90 5.90	0	- 1		4		w.	

The departures from the normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. Reference letters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. I also on other dates. If therefore the near the desired in means and summaries, "Temperature data are from observed readings of the dry bulb; means are computed from observed readings. If the divide addresses of these stations are a solidows: Of dastaton Shoats, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyille; of Casar's Head, Greenville; of beaufort (near), Burton. The Precipitation is less than 0.01 inch of rain or melted snow.

Dailer	Propinit	ation	for	Novemb	or.	1934.

															1-	n). (	il mi	nth														æ
Stations.	Draimage- bastus.	1	2	3	4	5	6	7	8	9	10	11	12	18	14	15	16	17	16	19	20	21	22	28	21	25	26	27	2n	29	30 31	2
Eastern Portion.	Coast		1	. 02	. 25	1	Ī	[		1	1												Ť.							.60	.10	1.37
Heaufort(near) Bishonville	Illack.	33		. 02	. 11							. 06											T.	. 09					.01.2	file.	.01	2.98
Buck ville ##	Edisto	T.	. 10		. 10							. 05										.01	4	Τ.	. 20			4:	1. 89	. 53	. 29	2.1.1
Buckville	Const			, 03	. 40																								T. 8	3. 80	. 26	5.20
Conway	Peedee Waccamaw	. 48				.01																							2	2.72	1.62	5, 58 2,65
Darlington III	Peedee				. 25							. 04													.30				1	1.80	. 31	2.65
Effitighten III	Lypepes		. 14		. 28																											2.21
Ferguson	Suttee Peedeedo		. 23		. 17		• • • •		• • • •	• • • •	• • • • •						. 10					.04			. 34				1	1.76	. 06	2.30
Florence 1	Peedee										7.											T.			171					2. 35	.01	2.57
Garnett	Savannah	. 00																						. 15					.18	- 74	. 07	1.14
	SEVERIHER	1																			- 1		T.		T.					3 10	82	4.62
Kingstree Ih	Itlack		. 33		. 37																		50	60								2.72
Marion	ltlack Peedeedo Edisto				.28					• • • •						• • • • •		. 34					. 50	. 00	.06					1.59	. 39	2.80
Mars Blutt Bridge	do				. 68							.08											T	10					. 62	2. 15	.03	3.74
Orangeburg Pumpolis	Edisto	. 63	Т.		. 11			• • • •				.01																	2,00	. 25		2.49
т наприла	Cooper	12	. 12																											2.00	20	2.95
Rimbi III	Sautee	).	. 40		. 15																				. 20				06		.40	4.44
Society Hill ##	Peedee		. 10		. 42	. 12						. 15												• • • •	.29				.00	1 69	45	2.28
Summerville III	Ashley				. 14																			90					. 40	1.38	.45	2.86
Smuter	Ashley Wateree	. 25																						30					. 25	2.00	. 25	8,00
Wedgetlela	Ashepoo	. 20							• • • •																. 04					1.91	. 20	2.15
Yeomsseehl Cestern Portion.	Ashepoo							• • • • •																								0.22
Alken	12.15. 4.0	0.9	,																					.07					****	.12	40	2, 04
Anderson	Sayamah	.00			15																								7. 48	01	. 43	0.95
Bhirs III												. 17												. 03	.27				1 20	1 68	1. 38	7.82
Gusars Head	Saluda			1.10							. 46										• • • •		2,00	T					.86	. 32	1, 38	1.80
Culhorn Patts III	Savanumb				1.12							. 08	5			• • • • •					• • • • •				. 15			1		5.90	.10	6,56
Camden ##	Watered	.01			. 04							. 30																				2,54
Cutawba III	Cutawba	0.7	0.1		10						1	. 26	3		Y										. 34					.75		0.97
Chappells	Suluda	08	. 0.5	1	14		1111					.18	3										J.	. 04	. 02			m			.03	2.62
Cherokee (near)	Itrond	. 96	3		. 28						T.	. 85	5									T	Т.	. 28				Τ.	17	09	01	
Chester	Itronddo		1																					. 31					75	. 60	. 43	3.27
Clemson Colloro																						m'	.14	19				T.	.75 1,84	.20	. 76	3, 18
Columbia ***	Congarce	. 00	3	. 02	.08						. 06											1.							1.79	. 43	.30	3.20
Crescent	Enarce	1		, 24							. 08			• • • •																		1, 05
Fagelield [5]	Savannah	06	5			1															. 19			. 11			. 18	. 08	.08		.41	0, 51
Ellenton	Savanuali		1	1.1.																			• • • •							1 18	16	3. 20
Gasion Shoals III	Brand	9:	5		38							. 43	5								• • • •		• • • •	****	. 00				T.	. 77	. 32	2,96
Green ville	Saluda	0)	4	4	. 14																										. 12	1.46
Green wood !!!	da	. 15			- 14							1	9					• • •						.32					2.28		1.09	4.19
Heath Springs	Wateree	. 00	b		.25								3								1						1					3,60
Kershaw III	Lyuches	1			90			1	ļ															. 42					T.	2.81	1.09	
Landrum	Brond	. 6	1	1	. 56						. 27												· · · ·	. 9					1.46	. 38		2.84
Laureus	Saluda	. 1.	5										7										T	.1					.10	20		0,90
tittle Monutain	Saluda				.05	5						.20	0											. 30					. 01	. 69	.98	3,32
Long Creek	Savannah	. 8	4		. 35																	.04	. 04	. 15		1		1	. 23	. 15	.02	0.79
Newberry	Suludu	. 0:	2	. T.							. 09	0	9									.10		1.1					T	. 96		1.93
Pelzer III	do	. 1.	5		. 15					٠.		.0							1								1	1	0.			1.25
Saluda	do																												. 30	- 20	.75	
Santuck	Broad	0.			19							.1	4										T.	- 13	2			· ···		1 6	. 11	2 50
Santuck Spartaulairg	do	1.2	5 T.		. 10							.2	2											T.	. 0			. т	.01		. 42	T.
Trenton	IGlisto			T.		1																		1.	0				. 64	1 . 64	11.92	4.10
Wallialla	Savannah .	5	8	T'.	. 47					1			n				1					.03		1"	. 20	n		Т.		1.85	.05	1.26
Winnshoro III	Broad	.0	4		03	T.	1	1		1		1 3	9	1	1									.4	71	1				. 40		2.^4
Winthrop College	. Catawon	. 6	2	`···	. 1	`	-		-::			,				-	_										,		w1i me		Aleo Aires	· of

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. Ill Precipitation measured in the marning; amount their recorded is for the preceding 24 hours. \*\*\* Regular Weather Itureau station; precipitation is for the 24 hour period, midulght to adduight to adduight. \* Precipitation included in the next following measurement. ISeparate dates of falls not recorded. T. Trace, or less than 0.01 inch.

COMPARATIVE DATA FOR NOVEMBER.

Average Average Average Departure Properture	Greatest Monthly remidis	Precip01 Clear Clear Partly Cloudy	Year Year	Mean Departure	Highest Lowest	Average Departure	Greatest Monthly Monthly Monthly Average Showfall	ore	ber of	
Nean Departure Highest Average Departure	Greatest Monthly Least Monthly Average Snowfall	Precip01 Inch or more Clear Partly Cloudy	Year	lean Jeparture	ighest	erage	eatest outhly ast outhly erage	cipúl h or more	, A	x. 8
					H   1	P A	SA Ke	Precit inch	Clear	Cloudy
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3.25 T. 7.54 0.94 7.28 1.96 0.00 5.25 0.43 0.00 5.25 0.43 0.86 0.00 6.25 0.63 0.86 0.00 6.26 0.00 6.41 0.26 0.00 6.41 0.25 0.00 6.41 0.25 0.00 6.41 0.25 0.00 6.41 0.25 0.00 6.41 0.00	. 5 144 8 7 6 122 8 5 166 7 6 15 16 6 5 16 6 6 6 13 8 6 5 121 4 7 6 18 7 7 5 144 8 6 177 6 6 3 177 6 6 3 16 10 12 7 3 16 10 3 18 9	1912 1913 1914 1915 1916 1917 8 1918 19 1929 10 1920 10 1921 10 1923 8 1924 10 1925 5 1919 10 1925 10 1927 18 1928 1927 1928 1929	54.7 +1.0 50.8 -2.9 58.8 +5.1 51.2 -2.5 52.1 -1.6 55.2 +1.5	84 17 889 188 86 17 88 124 88 124 88 127 88 16 87 18 86 26 87 18 87 18 88 17 87 21 87 21 87 21 87 21 87 22 85 11 87 22 85 11 87 22 85 11 87 26 88 11 87 21 88 11 87 21 88 11 87 26 88 11 87 21 88 11 88 11 88 11 89 12 80 12 81 13 8	2.71 +0. 1.79 -0. 2.33 +1. 1.21 -1. 0.82 -1. 3.13 +0. 0.86 -1. 3.11 +0. 0.86 -1. 3.11 +0. 2.79 +0. 1.45 -0. 0.61 -1. 2.79 +0. 1.45 -0. 0.72 -1. 3.85 +1. 4.35 +2. 0.54 -1. 4.35 +2. 0.54 -1. 2.73 +0.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 6 4 4 7 8 6 7 8 6 2 7 7 5 3 10 9 3 7 4 6	18 18 13 20 16 23 14 17 15 19 12 12	4 4 4 7 4 7 5 9 6 8 8 11 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

							Dai	ly '	Ten	per	atu	res	fo	No	vei	nbe	r, 1	198	4.													
Stations.	1	2	3	4	5	6	7	.8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.
Eastern Portion  Beaufort (near)   Maximum   Minimum   Maximum   Maximum   Maximum   Maximum   Maximum   Minimum   M	88 66 66 66 67 66 67 66 67 68 68 68 68 68 68 68 68 68 68 68 68 68	22 55 55 77 60 44 33 66 41 44 56 44 56 44 56 45 47	0 6 5 3: 7 7: 6 4- 6 5: 6 5: 2 7: 3 6: 6 6:	9 61 2 82 4 65 4 81 81 81 81 81 81 81 81 81 81 81 81 81 8	49 70 47 75 57	46 73 43 67 50 67 45	48 77 41	49 81 47 85 48 75 54 83	49 78 54 78	5 54 5 74 3 81 6 81 6 68 5 52 77	48 68 43 69	33 56 31 59 32 52 36 52 33	3 6 2 6 2 5	57 7 43 4 61 7 45 60 8 40 2 52 35	39 50 28 56 29 52	65	35 70 30 76	5 44 74 36 79 42 73 51	44 76 40 80 44	52 73 46 74 53 69 58 72 42 74	80 60 75 55 80 58 70 61 78 45 77 53	79 63 78 59 82 60 74 63 82 57 79 53	80 61 73 62 75 61 79 61 76 62 79 57	70 45 65 50 70 46 66 53 65 49 70 57	60 41 54 34 57 36 54 41 55 31	58 38 53 34 56 36 58 43 64 36 58 36	45 64 54 58 43			65 73 63 74 63 75		71. 8 49. 1 68. 6 45. 0 71. 4 45. 9 67. 6 51. 8 69. 5 41. 8 70. 5
Darlington §	777 511 81 411 844 59 82 58 79 50	7 6- 1 41 7 73 1 86 7 73 1 73 1 74 1 75 1 72 49 80	4 78 3 36 5 72 0 77 6 40 8 77 1 48 2 72 9 50 6 64	83 44 83 40 85 64 82 63	77 46 76 76 82 45 79 41 77 49	68	80 37 78 78 39 81 34	85	67 48 74 79 44 77 44	77 34 72 78 41 80		54 30  69 30	69 26 61 62 26 62 21 62	53 36 57 59 32 64 41 56 48 61	53 24 56 56 30 56 26 53 28	69 21 65  63 23	74 25 77 69 28 75 27 74 27	79 31 77	81 37 78 75 39 81 39 81 39	40 76 49 74  76 41 77 57 77 44	79 46 78  77 44 82	53 81 55 83  78 46 84 59 79 59 81 57	79 59 83 .	57 65 49  64 50 76 42 69 46 80 55	34 55 33 57 50 33 62 36 62 34	55 32 57 54 41 58 34 56 35 53	51 59 41 61 56 46 57 44 60 51 56 43	57 76 50 70 73 49 72 51 73 55 58 50	70	74 . 62 . 80 . 63 . 79 .		70.7 40.8 172.2 71.5 40.4 273.1 444.0 71.9 45.7 870.4 847.3
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Western Portion  Aiken   Maximum   Minimum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Maximum   Minimum   Minimum   Maximum   Minimum   M	77 63 69 52 63 44 62 51 77 47 71 49	67 46 60 39 54, 31 62 36 74 46	70 38 54 39 57 32 58 38 76 42 62 29	67 52 71 52 68 39 66 46 74 44 73 45	77 48 72 45 66 43 70 42 72 43 74 38	76 43 69 42 62 38 61 40 68 42 67 50	77 46 78 45 74 40 70 42 79 34 77 37	81 49 79 49 73 50 80 41 83 40 79 36	79 55 71 48 62 40 75 42 70 45	73 43 74 42 66 41 72 38 72 34 68 32	70 41 63 40 50 29 55 35 62 39 54 86	59 27 53 28 40 23 52 26 53 28 44 27	64 28 60 28 59 24 55 51 24 62 25		57 34 57 28 54 27 51 25 59 26 55 21	66 29 66 30 65 35 62 23 54 22 68 22	74 32 71 33 68 43 73 26 74 24 71 24	76 48 73 37 71 46 78 33 79 28 74 26	80 34 74	40	77 558 6558 6550 6574 774 77558 6582 882 8846 573 773 773 773 773 773 773 773 773 773	51 74 59 58 52 53 50 52 55 24 6	62 70 56 67 51 71 56 74 59	45 61 43 56 33 59 40 54 50 61	39 51 34 50 23 55 33 53 33	49	55 44 53 44 58 29 55 42 59 36 55 43 51 45	67 48 54 50 54 40 57 42 69 48 53 48 61	66 52 66 53 65 45 70 54 70 55 64 51 64	73 52 73 60 52 78 57 59 71 59		70. 8 45. 4 65. 8 43. 3 59. 6 38. 4 65. 3 40. 4 68. 7 39. 4 65. 3 37. 6
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Santuck Maximum Minimum Spartanburg Maximum Minimum Minimum Maximum Minimum Maximum Minimum Mi	69 47 56 68 52 74 49	69 47 68 28 64 40 775 38 65 35 57 39 32 60 41 44 40 40 40 40 40 40 40 40 40 40 40 40	54 36 36 51 37 69 37 60	60 78 40 76 56 72 49  36 74 47 78	75 38 72 45 45 75 89 74	78 41 68 38 64 49 42 69 69 69 69 69	45 78 32 77 40 78 45 45 78 34 34 34 34 34 34 34 34 34 34	48 80 38 80 44 81 45 81 35 78 48 11 35	44 70 35 70 47 80 45 72 35 65 48 51 70 87	57 33 75 37 75 37 75 32 70 41  50 73 335 73	52 35 35 62 32 57	27 50 22 51 51 28 52 25 51 22 25 51 22 25 51 22 25 51 22 25 51 22 25 25 25 25 25 25 25 25 25 25 25 25	60 29  28 62 23 61 28 30	27 59 31 55 41 58 58 58 58 57 27 28 27 28 227 227 228 228 228 228 22	24 57 57 59 55 55 56 66 66 77 77 78 8 11	66	70 34 31 31 33 37 37 44	72 39 50 75 75 29 74 41	76	75 7 15 5 75 7 15 5 75 7 15 5 75 7 17 5 18 5 14 7 10 5 14 7 10 5	3 74 4 60 8 58 1 69 7 60 7 78	7: 50 7: 6 7: 50 7: 50 7: 49 7: 50	2 41 5 6- 6 4 4 45 2 60 42 6 69 3 59 3 59 4 49	4 54 22 55 34 66 1 3 3 55 55 55 35 55 55 55 55 55 55 55 55	15 5 5 19 3 19 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15	33 15 16 14 13 13 13 13 13 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	40 63 40 51 44 63 33 51 45 52 44 53 63 63 63 63 63 63 63 63 63 63 63 63 63	42 57 48 61 49 62 36 58 50 55 44 44 64 64 64 65 65 65 65 65 65 65 65 65 65 65 65 65	75 48 69 50 664 53 68 46 64 54 65 65 65 65 65 65 65 65 65 65 65 65 65	70		68. 7 42. 6 65. 0 36. 8 67. 7 41. 8 69. 8 867. 8 38. 5 63. 7 42. 3  42. 4 65. 5 38. 0 66. 2 41. 7 67. 0

Reference letters, (\*, b, c), appearing in the table indicate number of days missing; for example, brepresents two days missing, etc.

### Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

#### WB O, Raleigh, 12 27 34—900

## CLIMATOLOGICAL DATA

SOUTH CAROLINA SECTION.

G. C. MERCHANT.

Vol. XXXVII. COLUMBIA, S. C., DECEMBER, 1934

#### GENERAL SUMMARY.

Temperature and precipitation averaged considerably below the normal. It was the coldest December since 1930.

Rainfall was fairly well distributed at frequent intervals throughout the Section, especially during the latter half of the month, but amounts were light in most eastern localities. Winter plowing made fairly good progress the first two weeks, but thereafter little work was done. Much farm butchering proceeded under favorable weather conditions. Grain and winter truck made good growth and progress until the hard freezes around the 12th, with some damage to oats generally, and to truck in the lower elevations; however, mild conditions were favorable for recovery during the last week. Pastures became dormant in northern portion, but fair grazing was had in cabbage and lettuce and planting of English peas made good Spartanburg, 4, 25, 29; Trenton, 1, 7, 19. progress in the coastal area as the month closed.

#### TEMPERATURE.

ports of 43 stations, was 44.8°, or 2.0° below normal. The described as abrupt and heard as distant thunder. highest temperature was 78° at Garnett on the 3d. The warm periods were generally from the 1st to the 4th, 16th and 17th and from the 23d to the 30th, when the daily mean temperathe 12th. The cold periods were from the 6th to the 15th, 20th and 21st, and on the 31st, when daily mean temperatures ranged from 5° to 25° below normal. A hard freeze occurred gener-years of service at Catawba. ally on the 12th.

#### PRECIPITATION.

The average for the Section, 56 stations reporting, was 2.74 inches, or 0.89 inch below normal. Monthly amounts ranged from 3.00 inches to over 5.00 inches in northwestern counties, and downward to one inch in other portions of the State, except at Trenton reporting 5.14 inches. The greatest local monthly amount was 5.89 inches at Crescent, Spartanburg County; least local monthly amount, 1.00 inch at Ferguson. Orangeburg County. The greatest amount during any 24 hours

was 1.88 inches at Crescent on the 31st. The average number of rainy days was 8, the normal number.

Traces of snow occurred in middle and upper sections gen-No. 12 erally on the 7th and 10th, with the greatest amount of onehalf inch at Caesars Head on the 7th. Charleston, also, reported a trace of snow.

#### RIVER CONDITIONS.

River stages were generally moderate to low, except at flood stage, or slightly above, at Rimini on the Santee River several times during the month, and at Ferguson on the 6th. Also, about flood stages occurred at Cheraw, Mars Bluff and Poston on the Peedee River several times the first part of the month. No damage was reported.

#### MISCELLANEOUS PHENOMENA (dates).

Halos-Lunar: Charleston, 14, 20; Columbia, 16, 24, 25; Little Mountain, 12; Santuck, 20, 24; Spartanburg, 12, 16; Walhalla, 16. Solar: Columbia, 2, 25.

Fog (dense) - Beaufort, 8; Blairs, 25; Caesars Head, 30; southern localities. Preparation of soil, transplanting of spring Columbia, 19, 21; Greenville, 25, 29; Pelzer, 25; Santuck, 25;

> Sleet (light).—Calhoun Falls, 7; Columbia, 7; Little Mountain, 7, 10; Newberry, 10; Pelzer, 7; Trenton, 10,

Aurora.—Observed at Conway 5 a. m., of the 22d.

Earthquake.—Light shock felt at Summerville, Dorchester The monthly mean for the Section, determined from re- County, at 5 a.m., of the 9th. Only one shock reported and

#### DEATH OF RIVER OBSERVER.

Mr. James C. Faris, Sr., it is regretted to announce, died tures ranged from 5° to 15° above normal. The lowest tem- at his home December 29, 1934. He was 52 years of age, and perature was 8° at Caesars Head, Chester and Long Creek on had been river and rainfall observer at Catawba, S. C., for 28 years. Mr. Faris was a highly respected citizen of his community and state, with an excellent record as river and rainfall observer for the Weather Bureau throughout his many

#### PRESSURE, WIND, HUMIDITY AND SUNSHINE.

	Atr (re-	nosphe luced	ric to se	pressui a-leve	e ()		Wir	nd			elati mid		ge of sunshine
Stations.	Mean	Highest	Date	Lowest	Date	Average hourly ve- locity	Maximum velocity	Direction	Date	8 a. m.	12 noon	8 p. m.	Percentage c
Asheville, N. C Angusta, 6ta. Charleston, S. C. Charlotte, N. C. Columbia, S. C Savannah, 6a. Wilmington, N. C. Means and ex- tremes.	30, 19 30, 17 30, 15 30, 16 30, 17 30, 16 30, 16	30, 57 30, 48 30, 47 30, 53 30, 52 80, 45 30, 50 30, 57	27	29. 51 29. 66 29. 64 29. 55 29. 60 29. 67 20. 56 29. 51	19 19 19 19 19 19 19	9.3 5.9 10.1 7.1 6.9 10.6 8 5	26 21 29 27 24 31 29	w. nw. e. sw. w. w. w. w.	19 30 19 19 19 19	80 77 77 74 86 79 75	58 58 58 58 63 60 55	66 59 73 59 67 70 70	43 60 57 54 53 48 53

#### Climatological Data for December, 1934.

	1	1	-:	1						Dec	1	r, 193			,					
			record.		Tempe	rature	in de	grees	Fahr.		Prec	ipitatio	n. in iı	elies.	Nu	mber	of d	lays.	tton	
stations.	Counties.	Elevation, feet.	Length of r	Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Grennest duily range.	Total.	Departure from the normal,	Greatest in 24 hours.	Total snowfall, unmelted.	With precipition	Clear.	Partly cloudy.	Cloudy.	Prevailing direction	Observers.
Eastern Partion.		F		P			1		ĺ		j	1	1	-	12				_	
Beaufort (near)?? †† Bishopville Blackwiie Clurleston. Cheraw	Lee. Burnwell. Charleston Chesterfield	224 296 48 144		*52, 1 45.9 48.4 50.2 45.6	+0.9 +0.4 -1.5 +0.9	°73 71 74 72 68	† 1	*23 17 17 23 16	12 12 12 12	31 34 25 38	1.28 2.17 3.83 2.16 1.88	-1.48 +0.02 -0.56 -1.40	0.75 1.60 1.11	T.0 T.	3 6 11 11 4	14 16 12 8 18	7 6 13 9	10 9 6 14 12	e. sw. w. n.	Mrs. R. L. Fripp. William M. Reid. Mrs. Mariella S. Matthews U. S. Wentiler Burean. Roland D. Powe.
Effingham Ferguson#	Orangeburg	25 175 106 63	46 40 44 49	48. 2 44. 9	-0.2 -0.8 -3.0	71 71 	† 1 25 †16	20 17 •19	12 12 12	39 40 • i 44	1.71 1.86 1.29 1.00	-1.63 -1.09 -1.96 -2.09	0.75 0.75 0.58 0.55	T. 0 0 0	7 7 5 3	11 12	4		11e.	Perry C. Quattlebaum. D. C. McCall. Wm. B. Gillespie, E. J. Karriek.
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Pinopolis** Rimini	Florence Orangeburg	92 264 54 97	12 20 88 21	47. 5 45. 1	-1.3 -2.9	72 64	1 3	19 20	12 12		1.54 1.46 1.20 1.92	-1.65 -1.76 -1.22	0.65 0.50 0.45 0.75	0 0 0	6 9 5 6	13 15	 6 6	12	w. nw.	Joseph L. Shaw. U.S. Fisheries Station. Miss E. P. Ravenel.
Wedgefield Ventassee	Darlington Dorchester. Sumter Sumter Hampton	192 75 169 249 24	44 37 13 44 46	44. 2 48. 0 46. 0 46. 5 49. 2	-0.9 -1.6 -1.8 -1.8 +0.2	70 75 73 73 75	25 25 1 3 8	15 17 16 15 17	12 12 12 12 12	44 45 37 34 38	2.04 1.70 1.83 2.05 2.02	-1.25 -1.73 -1.67 -1.22 -1.34	1.20 0.66 0.80 0.95 0.49	0 T. T.	7 9 10 5 7	18 12 7 19 15	3 3 13 5	11 7	w. ne. w.	E. D. Fields, Jr. Cleuson Coast Exp. Sta Sunter Water Dept. W. Hampton Ramsey
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Cherokee (near)	York Newberry Spartanburg Chester Oconce Richland	562 402 758 487 850 351	29 30 7 16 48 48	40.6 43.4 43.2	-0.4 -1.6	68 70 68 69	† 1 † 1 16 25	11 8 13 19	12 12 12 12 12 12	40 52 40 31	3.81 3.23 3.12 8.98 4.68 2.29	-0.14 -1.11 -0.58 -0.74	1.05 1.02 1.14 1.00 1.19 0.81	T. T. T. T.	8 11 10 11 12 12	19 7 17 10	 1 9 1	11 15 13	 nw.	James C. Faris. William Spearman. Spartanburg Water Works Anderson Weir. Prof. F. H. H. Calhoun. U. S. Weather Burgan.
Elleuton Gaston Shoals []	Spartanburg Edgefield Aiken Cherokee Greenville	680 550 76 680 1089	32 51			66		17	12	42	5.89 2.50 2.81 2.68 3.41	-0.77 -1.60 -1.43	1.88 0.96 0.81 1.09 0.99	0 0 T. T						Duke Power Co. J. C. Doscher. A. A. Foreman. Southern l'ublie Utilities. Walter R. Hall.
Kershaw Landrum Lanrens i	Greenwood. Lancaster Kershaw Spartanburg Laurens	589	51 33 19 20 17	41. 4 44.0 43. 0 43. 2	+0.2 -2.1 -2.5 -0.4 -1.7	69 68 68 67 69	25 17 26 25 † 1	19 13 15 17 14	12 12 12 12 12 12	36 30 33 32 38	2.60	-1.52	0, 91 0, 90 0, 42 0, 96 0, 94	110	11 8 7 10 10	7 1 8 15	2 2 7	12 1 21 3 9 1	N	M. M. Calhonn, d. Marvin Bowers, John W. Hauel, R. Hurtwell Wilds, D.D.S, L. G. Roff,
Newberty Pelzer Saluda Santuck I	Newberry Oconee Newberry Anderson Sahida	1000 502 850 536	31 31 33 42	39 9 44.1 42.6	-2.9 -1.2 -2.9 -1.4	73 67 69 70 70	26 29 † 1	12 8 13  15 10	12 12 12 12	39 40 38 43 43	4.44 . 8.85 8.78 2.85	-1.32 -1.19	1.05 1.08 0.88 1.26 0.75 1.05	T. 0 0	12 11 11 8	14 14	5 .	9 1 12 1	v. 1. v. v.	Miss Elberta Sease. Mrs. K. L. Burton. John H. Baxter. Earl J. Frick. B. B. Blease. W. O. Juler.
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D47	xtremes				-2.1 -2.0	78 78	26 3	8	12 12	- 1			1. 88 1. 88	T.	- 1		1	12 V	r.	

The departures from the normal temperature and precipitation are computed only for such stations as have ton or more years of record, but all complete reports are used in determining section or division means. Reference betters (a, b, c), appearing in the table indicate number of days missing; for example, b represents two days missing, etc. f Also on other dates. If Received too late to be included in means and summaries. The remarked class are from observed readings of the dry bulb; means are computed from observed readings. If Post-office addresses of these stations are as follows: of deaston Shonis, Blacksburg; of Winthrop College, Rock Hill; of Ferguson, Entawyille: of Casar's Head, Greenville; of Beaufort (near), Burton. The recepitation is less than 0.01 incb of rain or melted show.

Daily Precipitation for December, 1934.

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Crescent	Enoree	•		. 35							• • • •											. 12				04.					49	2,50
Edgefield fill	Savannah	'8							45											81	0.8	• • • •					69 .	37	8	30 .2	7 .07	2.81
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Little Monutain	Saluda							T.			T	m					• • • •			1.05		• • • • •	18	• • •		01	.85	: :		64 . 6	5 .04	4.44
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Winthrop College	Cutawba	.73	2		. 10	٥														1, 05	*		. 20			• •						

Except as otherwise indicated, observations are generally made late in the afternoon, near smuset, and precipitation recorded is for the 24 hours ending at the time of observation. [II] Precipitation measured in the marning; amount then recorded is for the preceding 24 hours. \*\*\* Regular Weather Bureau station; precipitation is for the 24 hour period, midnight to midnight. \*Precipitation included in the next following measurement. Isoparate dates of falls not recorded. T. Trace, or less than 0.01 fach.

COMPARATIVE DATA FOR DECEMBER.

								C	OME	ALLA	TT.	V .E	DA.	IA FUI	L	OEMD											_
		Temper	ature			Prec	ipitati	on		Num	ber	of D	ays			Tempera	ature			Pree	ipitati	on		Num	ber o	of Day	S
Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average Snowfail	Precip01 inch or more	Clear	Partly	Cloudy	Year	Mean	Departure	Highest	Lowest	Average	Departure	Greatest	Least Monthly	Average Snowfall	Precip. ,01 inch or more	Clear	Partly Cloudy	Cloudy
1887 1888 1849 1891 1891 1891 1893 1893 1895 1895 1895 1997 1991 1991 1993 1994 1995 1998 1998 1999 1999 1999 1999 1999	45.9	-1.9 -4.1 +8.6 -0.9 +3.1 +0.3 +0.4 +1.3 -0.7 -2.8 +0.9 -2.2 -1.3 -2.8 -0.6 -1.3 -1.6 +1.2 -0.6 +3.8 -4.0 -4.8	76 71 79 76 79 85 80 83 87 77 79 80 85 77 78 87 78 87 78 88 77 88 77 88 78 88 8	18 13 17 	4.65 3.56 0.53 2.29 1.245 3.04 3.56 3.04 3.56 2.40 2.84 2.84 5.01 4.95 2.79 5.84 2.79 5.84 2.84 4.94	+1.02 -0.07 -3.10 -1.38 -1.72 -1.18 -0.58 -1.05 -0.08 -1.23 -0.79 -1.30 +1.88 +0.68 -1.02 -1.48 -1.68 -0.84 +3.62 -0.88 -1.03 -1.78 -1.88 -1.05 -1.05	8.50 5.12 1.20 4.15 8.65 5.81 4.67 6.56 4.11 6.52 4.05 8.15 10.23 6.80 8.49 11.18 7.71 8.70 5.07 4.96 8.59	3. 31 2. 12 0. 00 1. 01 0. 65 1. 60 1. 21 0. 43 1. 25 0. 55 1. 10 1. 02 0. 85 1. 28 1. 92 0. 57 1. 08 3. 18 3. 11 0. 48 0. 66 1. 21 0. 65 1. 60 1. 21 0. 65 1. 10 1. 02 0. 65 1. 10 1. 02 0. 65 1. 10 1. 02 0. 65 1. 10 1. 02 0. 65 1. 10 1. 02 0. 65 1. 10 1. 21 1. 02 0. 65 1. 10	T. 0.9 0 0.7 T. 0.2 0.6 0.1 T. 0.1 T.	6	17 15 16 17 11 12 15 14 20 14 12 14 14 18 17 18 17 18	7,87,687,87,56,554,87,97,77	7 8 8 8 8 12 12 8 10 13 11 6 12 15 9 10 9 7 6 13	1912 1913 1914 1915 1916 1917 1918 1920 1921 1923 1924 1925 1926 1927 1928 1929 1930 1930 1931 1932 1932 1933 1933	48.8 47.8 43.9 44.2 750.8 50.8 51.0 52.5 46.1 47.6 41.4 46.2 41.5 53.5 49.6 52.1 44.8	+2.0 +1.0 -2.9 -2.6 -0.1 +4.0 -0.8 -0.7 +3.5 +4.2 +5.7 +0.8 -0.7 -0.8 -0.7 +3.5 -0.7 +4.5 +4.0 -0.7 +5.7 +0.8 -0.5 -0.8 +4.2 +5.7 +0.8 -0.8 +0.8 +0.8 +0.8 +0.8 +0.8 +0.8 +0.8 +	79 77 80 79 82 82 87 75 86 79 86 77 82 87 87 88 81 88 81 88 88 88 88 88 88 88 88 88	18 16 11 17 11 -6 17 15 18 20 22 23 12 11 18 12 15 10 20 15 17 8	2. 88 4. 25 4. 80 2. 48 1. 47 5. 35 5. 35 5. 35 4. 01 1. 54 4. 90 4. 12 8. 26 8. 59 8. 1. 87 4. 14 6. 39 2. 74 3. 63	-0,75 +0.62 +1.17 -0.36 -1.20 -2.16 +1.72 -0.18 +0.28 -2.09 +1.27 +0.49 +1.91 -0.37 -0.04 +3.30 -1.76 +0.51	6. 01 6. 80 11. 00 10. 08 4. 76 3. 35 18. 44 8. 93 7. 97 9. 81 6. 60 9. 58 7. 28 8. 00 11. 38 5. 14 6. 24 6. 24 120. 00 6. 36 5. 89	0.90 1.79 1.51 1.41 0.84 0.34 1.16 0.10 2.261 1.56 0.31 2.61 1.56 0.61 2.98 1.37 0.61 2.39 1.65 0.60	0 T. 1.7 0.3 3.8 T. T. 0 T. 0 T. 0.6 3.2 T. T. 0.6 3.2 T. T.	8 9 13 7 9 6 6 9 6 8 5 5 13 9 8 8 8 8 8 9 6 6 7 7 7 11 12 6 6 8 8 8 8 8 9 9 6 6 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	12 10 6 18 16 15 12 16 15 16 10 11 13 15 15 15 16 11 14 15 15 18 18 14 11 18 15 15 16 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	7656666575854546567756	14 14 19 8 9 10 18 9 11 8 16 12 12 12 12 12 11 13 16 11 11 11 12 11

†Interpolated.

Description							D	aily	Ten	per	atu	res	for	De	cen	ber	, 1	934						-							
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Anderson   Maximum   62   56   49   59   59   55   54   48   40   54   41   55   52   50   50   50   50   50   50	Society HHISS   Maximum   Minimum   Minimum   Minimum   Minimum   Minimum   Minimum   Maximum   Minimum	63 61 66 63 78 53 71 51 67 49	61 33 67 32 57 32 57 32	67 38 74 35 69 39 73	64 62 41 65 47 67 67 68 68 68 68 68 66 64 88 65 64 88 65 64 88 88 86 65 88 88 88 88 88 88 88 88 88 88 88 88 88	35 56 558 55 34 31 65 56 567 56 333 32 566 56 561 34 36 34 36 34 36 34 36	34 4 4 5 30 51 31 51	8 30 6 40 5 20 8 44 4 41 6 27 2 41 3 28 4 45 9 29	36 49 23 51 24 46 23 45 25 50 24	29 42 25 51 26 45 24 45 27 54 27	28 36 24 37 29 42 25 40 25 44 27	44 15 46 17 42 16	34 57 16 58 20 56 31 55 32 59 30	28 54 222 53 29 51 222 54 64 628 28 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	27 59 22 62 23 59 22 59 22 52 52 24	68 6 33 4	50 62 45 70 41 55 49 56	44 48 38 59 47 59 40 55 62 48 48	61 39 559 337 566 542 559 559 560 587 588 588 588 588 588 588 588 588 588	55 55 55 55 55 55 55 55 55 55 55 55 55	5 5 5 5 5 5 5 5 5 5 6 4 4 6 6 5 5 5 5 5	28 63 29 66	62 40 58 37 70 34 59 38 65 42 72 43	42 70 39 75 43 70 40 70 40	66 55 68 43 72 40 67 55 70 53 70 52	32	58 41 56 33 64 44 58 39 58 39 65 44	62 50 66 40 70 50 67 49 63 49 69 54	42 52 46 55 54 64 42 64	40 45 33 44	57. 5 37. 5 55. 8 62. 6 60. 3 35. 8 57. 5 84. 4 57. 7 35. 8 60. 9 37. 5
Greenwood (Minimum 50 56 56 60 57 54 44 23 32 73 32 54 55 55 56 57 60 57	Anderson Maximum  Caesars Hend Mainmum  Cathoun Falls Maximum  Camden Maximum  Camden Maximum  Cherokee (near) Maximum  Chester Maximum  Clemson College Maximum  Columbia Maximum  Columbia Maximum  Columbia Maximum  Columbia Maximum  Columbia Maximum  Columbia Maximum  Columbia Maximum	42 50 39 68 68 67 58 68 67 58 8 68 68 68 68 68 68 68 68 68 68 68 68	30 150 4550 4550 4550 4550 4550 4550 4550	45 44 46 46 46 46 46 46 46 46 46 46 46 46	6 3 3 5 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8 47 5 54 36 1 55 2 36 5 50 8 50 8 55 5 56 8 31	40 48 37 44 29 50 35 49 36 50 34 50 26 53 85	34 40 26 34 14 42 27 42 27	24 37 16 48 221 24 46 422 22 23 24 46 47 48 48 48 48 48 48 48 48 48 48	29 1 35 2 19 37 8 26 1 40 3 22 2	25 1 34 1 19 1 27 4 9 1 81 4 9 1 16 4 15 1	14 3 12 5 15 8 11 4 8 2 11 6 12 2 5 5 15 15	4 3 7 5 1 2 8 4 9 2 5 5 3 3 4 5 5 2 2 3 3 4 5 5 2 3 3 4 5 5 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	3 5 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8 6 7 3 3 5 3 5 3 5 5 5 5 6 5 7 6 2 2	33 8 55 5 54 4 4 4 4 4 50 4 50 5 50 5 60 6 60 4 60	7 44 1 35 5 5 6 3 4 6 6 4 7 5 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6	12 3 18 4 18 4 18 3 16 3 10 3 10 3 10 3 10 3 10 4 10 4 10 4 10 4	8 2 4 49 3 25 5 5 2 25 5 5 2 5 3 6 5 5 3 6 5 5 3 6 5 5 3 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5		30 51 37 61 24	35 57 32 48 23 52 28 59 26	42 53 39 49 35 48 37 55 27	48 68 43 59 41 68 40 70 40	52 67 48 56 48 60 50 65 40	40 53 82 44 35 55 30 56 27	39 45 36 54 34 50 38 59 43 43 64	46 60 60 42 61 543 560 540 440 440 440 440 440 440 440 440 44	40 8 54 4 86 8 53 4 10 3 58 4 15 8		36, 8 52, 4 83, 5 47, 6 29, 5 52, 4 33, 0 55, 7 30, 8
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Minimum 47 42 35 41 30 34 35 24 21 22 20 12 26 38 36 32 32 6 28 36 27 34 41 64 29 36 37 32.7	Newberry	23 59 30 58 30 59 26 54 33	31 61 38 64 30 57 83 46 36	55 42 42 61 36 59 39 63	53 32  32 55 28 55 34 58	56 4 37 3 59 4 31 3 55 4 35 3 56 5	30 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	18 17 42 47 28 23 48 48 22 24 41 40 21 18 37 42 28 24  28 24 10 16	46 21 41 25 49 24 37 21 37 26	30 21 22 33 18 34 23 34	44 10 40 16 14 45 11 43 15 41	54 30	58 27	56 29 22 58 22 59 25	66 37 68 26 65 28 64 38 26 68 29 65 29 65 30	38 55 49 62 48 62 36 60 47 56 44 	33 49 32 59 37 59 36 53 37 44 36	45 34 38 45 34 47 35 45	48 29 28 51 25 50 29	52 26  28 55 22 54 30	20 58 38 61 24 58 30 52 37	61 5 23 3 55 5 30 3	35 853 653 656 658 356 7766 44 653 4	13 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 19 7 55 1 31 9 59 8 36 7 56 2 28 3 32 5 36 5 36 5 36 5 36 5 36 5 36 5 36 5 36	33 43 33 43 34 48 36 48 36 48 36 45 37	63 41 65 38 61 42 60 42	56 42 48 39 57 43 52 42	42 32 33 41 34 45 37	57 27 54 29 50 33 53 29 53	7.4 7.8 1.7 0.5 1.5 1.1

Reference letters, (\*, b, c'), appearing in the table indicate number of days missing; for example, brepresents two days missing, etc.

WBO, Raleigh, 1 25 35—960

## CLIMATOLOGICAL DATA

SOUTH CAROLINA SECTION.

G. C. MERCHANT.

Vol. XXXVII COLUMBIA, S. C., YEAR, 1934 No. 13

#### GENERAL SUMMARY.

Temperatures averaged about normal and there was a slight dryness the preceding year.

decidedly cold. The lowest temperatures occurred, generally, the last three days of January, with hard freezes to the coast; several hard freezes also occurred during February which was consistently cold, and sub-normal temperatures continued over the northern half of the State the first part of March. Spring temperatures averaged somewhat low, with summer and autumn temperatures somewhat high, and the year closed with a rather cold December. January and July had the greatest deficiency in precipitation, and the greatest excess above normal occurred in May, the other months averaging slight deficiencies, or excesses. Eight persons were reported killed by lightning from May to September, inclusive, with one person dying from heat prostration in July. The total damage from windstorms, hailstorms and lightning approximated \$280,000, with much additional damage to ripened and shocked grain.

As a whole, crop production was fair, but yields were short March 20th. in some north-central localities on account of insufficient moisture at critical times. The January and February freezes did much damage to truck along the coast, and considerable damage to oats, generally. The woods were generally green by April 23d, the latest average date since 1914. Plantings were two normals: weeks, or more, late in northern sections due to cold, wet conditions in March and frequent April showers. Fruit yields were fairly good, but apple production in extreme northern portion was reduced by frost damage on April 21st. Early corn was harvests began about May 15th, with much damage to ripened grain in fields from hard rains and wind the last few days in May; also, maturing truck in the coastal area suffered much damage at that time. The first cotton bloom was reported from lendale August 17th, or 7 days later than the average date. woods were generally bare by November 15th.

Killing frosts occurred in upper sections as late as April 22d, and in lower elevations as late as March 25th. The freezes in fall began in the northern portion of the Section on October 29th, generally, extending to extreme southern portion by November 15th; however, many places in southern portion ex-

perienced freezing temperatures as early as October 29th. The average latest spring killing frost date for 1934 was March 25th, or 3 days later than normal; the average earliest fall killing frost date was November 4th, or 6 days earlier than normal. The growing season was 224 days, or 9 days shorter than

The mean annual temperature was 62.7°, or 0.3° below normal. The warmest month was July with a mean of 82.2°; deficiency in precipitation, in contrast to unusual warmth and the coldest month was February, with a mean of 40.6°. The highest annual mean at any station was 66.8° at Beaufort The winter averaged practically normal, with December (near); lowest annual mean, 58.2° at Long Creek. The highest (1933) mild, January somewhat above normal and February annual temperature was 106° at Trenton on July 20th; lowest annual temperature, 2° below zero at Caesars Head on Jan-

> Seasonal temperatures with departures from the 48-year normals: Winter (1933-34), 46.7°, -0.1°; spring, 61.3°,  $-1.3^{\circ}$ ; summer,  $80.3^{\circ}$ ,  $+1.6^{\circ}$ ; autumn,  $64.8^{\circ}$ ,  $+0.9^{\circ}$ .

> The average annual precipitation was 45.65 inches, a deficiency of 2.09 inches. The greatest annual amount at any station during the year was 78.76 inches at Caesars Head; least annual amount, 22.27 inches at Beaufort (near). The greatest monthly amount at any station was 12.59 inches at Caesars Head in September; least monthly amount, trace at Trenton in November. The average number of rainy days was 96; greatest number at any station was 127 days at Greenville; least number, 58 days at Beaufort (near). The average annual snowfall was 0.5 inch; the greatest depth reported was 3.0 inches at Greenwood on February 10th, and at Laurens on

> During the growing season, March to September, inclusive, the total precipitation was 30.84 inches, or 0.09 inch below normal, as compared with a deficiency of 6.81 inches last

> Seasonal precipitation, with departures from the 48-year normals: Winter (1933-34), 7.10 inches, -4.37 inches; spring, 12.89 inches, +2.33 inches; summer, 14.40 inches, -1.87 inches; autumn, 9.91 inches, +0.46 inch.

Moderate floods occurred in the Saluda, Santee and Peedee rivers during June; movable property saved by warnings estimated at \$13,500. Also, moderate floods occurred in the Samostly poor, but the late crop showed improvement. Cereal luda, Broad, Congaree and Santee rivers in October, when the value of movable property saved by warnings was estimated at \$12,000.

#### WEATHER BY MONTHS.

January.—Temperature averaged high and rainfall was St. George on June 15th, and the first open boll was reported light. Severe cold, however, the last two days greatly damaged from Blackville on July 27th; the first bale was ginned at Al-truck in the coastal area. Winter plowing made good progress.

February.—The month was unusually cold; precipitation Some localities reported heavy weevil damage to cotton. The was about normal. Further damage to truck and grain was caused by hard freezes on the 10th and 28th. Little outdoor work was accomplished. A sleet and ice storm, and a thunderstorm did damage estimated at \$11,000.

> March.—Precipitation averaged nearly normal, and temperatures averaged below normal. Cold, wet conditions the first two weeks retarded soil preparation and early plantings. (CONTINUED ON PAGE 52.)

#### Climatological Data for the Year 1934.

	a for th	r the Year 1934.																		
			Т	emper	ature	(degrees I	ahren	helt).		Pr	reclpitat	lon (ir	iehes)					Sky.		jo 1
Stations.	Counties.	Elevation, feet.	Length of record, years.	Annual mean.	Highest.	Date.	Lowest.	Date.	Length of record, years.	Total for the year.	Greatest monthly.	Month.	Least monthly.	Month.	Total snowfall.	Number rainy days.	Number clear days.	Number partly cloudy days.	Number cloudy days.	Prevailing direction wind.
EASTERN PORTION.														1						
Beaufort (near) Bishopville Blackville Charleston	Beaufort	21 224 296 48	49 1 51 62	66.8 63.3 65.6 66.2	103 97 104 98	July 21 July 17† July 14† July 20	18 11 26 18	Jan. 31 Jan. 30 Jan. 30 Jan. 30	54 1 51 64	22. 27 35. 84 51. 83 38. 83	5, 20 5, 72 7, 60 7, 05	May July Apr. Aug.	0.79 0.80 2.38 1.18	Jan. Jan. Jan. Mar.	T. T. T.	58 89 109 110	214 172 109	85 144 127	66 49 129	e. 11e. sw
Cheraw	Chesterfield	144 25 175 106	53 38 35	63. 0 64. 9 63. 2	101 101 108	July 16† July 17 July 17†	10 11 8	Jan. 30 Feb. 10 Jan. 30	53 46 40 44	46, 04 49, 80 36, 64 30, 82	7. 27 8. ×2 5. 67 5 96	Aug. Aug. May Aug.	0.81 0.72 1.12 0.34	Oct. Apr. Oct. Jan.	T. T. T. T.	85 105 88 75	243 173	69 	115 123	ne.
Ferguson	Orangeburg Florence Florence Hampton Williamsburg	63 136 136 82 54	46 53  17 53	63. 0 65. 8 65. 7	103 101 105 105	July 17 July 14† July 16 July 14	10 8  12 10	Jan. 31 Feb. 10 Jan. 31 Jan. 31	49 58 18 17 53	32, 71 34, 19 34, 72 37, 75	5.88 4.81 5.16 8.88	May Aug. May May	0.40 0.80 0.88 1.06	Jan. Jan. Oct. June	0.8 T. 0 0 0.4	72 83 73 98	200 214 206	75 81	90 70	sw. sw. w.
Kingstree  Marion  Mars Bluff Bridge  Orangeburg  Pluopolis**	Marion Florence Orangeburg Berkeley	68 92 264 54	7 19 50	64.8 61.8	104 102 95	July 14† July 17 July 21	15 7	Jan. 30† Jan. 31	7	44.78 *40.94 41.67 41.25 88.22	8, 60 6, 59 8, 04 6, 33 8, 39	Aug. Sept. Aug. Aug. July	1.11 0.93 0.80 1.46 0.93	Jan. Jan. Jan. Dee. Jan.	T. 0	99 91 98 87	163	71	121	w.
Society Hill	Clarendon  Darlington  Dorehester  Sumter	97 192 75 169	44 37 6	62.7 64.6	103 101 101	July 15 July 15 July 17	6 12 9	Jan. 30 Jan. 31 Jan. 80	24 44 87	35, 00 47, 83 35, 35 *33, 39	5. 87 7. 52 8. 34 4. 49	May June Aug. May	1. 30 1. 19 1. 07 0. 79	Oct. Oct. Jan. Oct.	T. T.	85 101 100	199 171	84 77	82 117	n. e. ne.
Wedgefield Yemassee	Hampton	249 24	13 46	63.7 65.7	101	July 17 July 25	11 14 6	Jan. 30 Jan. 31	13 46	36.99 46.18	5, 93 10, 01	May	1.50 1.53	Apr. Jan.	T. 0	77 85	287 197	69 38	59 180	w ne.
	extremes.			64.4	105	July 14†	0	Jan. 30		28, 63	10. 01	Mav	0. 34	Jan.	0.1	90	187	84	94	ne.
WESTERN PORTION.  Aiken Anderson Blairs Cresar's Head.	Aiken	527 764 293 3115	71 38	65, 2 61, 6	101 100 93	July 14† June 27 July 25	14 10 — 2	Jan. 30† Jan. 30 Jan. 30	73 42 30 11	44.09 50,57 46,49 *78,76	8.48 7.34 7.41 12.59	June June May Sept.	0. 22 2.04 0. 95 3. 07	Nov. Nov. Nov. Feb.	0 0.8 1.0 2.6	73 107 99	208 218	81 24	126 128	ne. w.
Calhoun Falls Cainden Catawba Chappells	Abbeville	508 222 562 402	18 56	61. 9 62. 3	102 103	June 26† June 30†	10 9	Jan. 30 Jan. 30	36 86 29 30	44.81 47.67 43.61 46.72	6, 21 6, 56 5, 03 7, 39	June Nov. June May	1.80 1.73 2.18 0.97	Nov. Jan. Sept. Nov.	2.5 T. T. 1.0	84 106 100 111	146	122	97	S
Cherokee (near) Chester Clemson College Columbia	Spartanburg Chester Oconee Richland	758 850 351	7 40 48	59. 5 61. 7 63. 8	98 98 101	June 28† June 28† July 21	7 7 14	Jan. 30 Jan. 30 Jan. 30	7 43 48	56.66 57.25 35.75	7. 08 7. 75 4. 27	Mar. July July	2.44 2.49 1.10	Jan. Sept. Jan.	2.0 T. T.	87 118 117	243  172 147	52 49 112	70 144 106	w. 110.
Crescent Edgefield Ellenton Gaston Shoals‡‡	Spartanburg Edgefield Aiken Cherokee	680 550 76 680							7 22 3 32	69. 24 46. 59 38. 45 51. 92	9. 19 7.74 9. 58 7. 48	Ang. May July Oct.	3.29 0.76 0.51 1.98	Nov. Sept. Nov. Jan.	0.5 0 0 1.0	99 75 78 102				
Greenville Greenwood Heath Springs Kershaw	Greenwood Lancaster Kershaw	989 671 568 500	51 51 33 19	60.9 61.9 60.2	101 100 99 101	June 26† June 28† June 27 June 30	9 10 4	Jan. 30 Jan. 30 Jan. 30	51 51 33 19	46. 08 47. 98 42. 43 42. 10	6.00 6.71 5.77 6.71	Mar. June June July	1.72 1.46 0.87 0.85	Sept. Nov. Jan. Jan.	0.8 3.0 T. 0	127 106 85 97	191 159	61 35	113 171	na. w. w.
Landrum. Laurens Little Mountain Long Creck	Spartanburg Laurens Newberry Oconee	1063 589 711 1000	20 17 42 1	60.6 62.2 61.8 58.2	101 101 103 101	July 22 June 26† July 16 July 21	8 9 7 6	Jan 30 Jan. 30 Jan. 30 Jan. 30†	20 17 43 1	68. 90 49. 57 44. 68 68. 36	10.48 8.20 6.71 9.88	June June May June	3.03 2.14 0.90 3.32	Jan. Sept. Nov. Nov.	T. 4.0 0.2 T.	104 101 87 120	189 280 218	114 77 68	62 58 84	n. w. w.
Newberry Pelzer Saluda Santuck	Newberry Anderson Saluda Union.	502 850 536 512	31  33 42	62.7 61.6 61.2	103  100 102	July 17 July 17 June 28	13 12 6	Dec. 12 Jan. 29 Jan. 30	31 31 33 42	51.96 51.67 43.32 50.32	12.05 5.83 6.86 8.83	June Oct. May May	0.79 1.93 1.25 1.37	Nov. Nov. Nov. Nov.	1.4 T. 0.5 1.2	109 114 68 110	173 256 128	107  6.0 147	85 49 95	w. sw. w.
Spartanburg Trenton Walhalla Winnsboro Winthrop College	Spartanburg Edgefield Oconee Fairfield York	875 620 1061 545 690	58 40 33 41 35	60. 6 59. 8 62. 0 61. 4	99 106 102 102 101	June 26† July 20 July 21 June 28† June 28†	10 10 6 9 8	Jan. 30 Jan. 30 Jan. 30 Jan. 30 Jan. 30	56 42 35 41 35	46.65 45.52 65.97 52.78 45.10	5. 98 6. 38 8. 51 7. 94 6. 96	June Mar. June June Oct.	1.81 T. 3.46 1.26 2.10	Jan. Nov. Jan. Nov. Sept.	0.5 0.8 1.2 T	114 76 124 108 108	119 143 190 105 183	111 157 98 171 171	135 65 82 89 61	sw. se. sw. ne. n.
Division means and Section means and ex	extremes.			61. 8	106 106	July 20 July 20	- 2 - 2	Jan. 30 Jan. 30		50. 55 45. 65	12.59 12.59	Sept.	т.	Nov.	0.7	101	178 179	86 83	106 103	w. ne.

<sup>†</sup>On other dates also. \*Partly interpolated.

\*\* Temperature data are from observed readings of the dry bulb; means are computed from observed readings.

†! Postoffice addresses of these stations are as follows: Of Gaston Shoals, Blacksburg; of Winthrop College, Rock Hill.

Monthly and Annual Precipitation for the Year 1934, with Departures from the Normal.  January, February, March. April. May. June. July. Angust. September. October. November December. Annual.																										
	Jant	iary.	Febr	nary.	Mar	ch.	Apı	ii.	Ма	у.	Ju	ne.	Jul	у.	Ang	ust.	Seple	mber.	Octo	ber.	Nove	mber	becen	nber.	Ann	ual.
Stations.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.	Precipitation.	Departure.
EASTERN PORTION. Beaufort (near) Bishopville Blackville	2.38	-0.99 -1.22	3.98 4.21 3.07	+0.06 +0.09	3.94 3.11 1.18	-0.39 -1.81	7.60 1.72	+4.29 -0.81	7. 58	+4.04	2.84	-2.63 $-2.91$	5. 22 2. 35	-0.38 -4.51	5. 22 7. 05	-0.12 +0.52	2.54 4.04	-1.75 -0.49	4.82 5.73	+2.11 +2.46	2, 98 2, 64	+0.95	3.33	+0.02	38, 53	-24.35 - 6.21 - 6.39
Cheraw	0.07	-2.42 $-1.74$ $-3.19$	5. 09 3. 81 3. 47	+0.96 +0.01 -1.17	3, 00 4, 89 2, 59	-0.54 +1 80 -1.22	1. 15 1. 58		5. 67 3. 06	+2.02 -0.63	4.71	-0.81 -2.39	2. 19 2. 73	-3.32 -3.38	3. 18 5. 90	-1.80 +0.19	4.20 2.76	-0.23 $-1.82$	1.12	-1.87 -2.63	2.65	+0.54	1.86	-1.69	36, 64	- 8.58 -18.74
Ferguson	0.80 0.95 1.80 1.11	-2.17 -2.02 -1.28 -2.08	3. 08 3. 22 4. 14 4. 60	-0.90 +0.19 +0.84	3. 46 2. 90 1. 95	+0.22 +0.12 -1.14 -1.54	1.07 2.56 1.51	-1.93 -1.03 -1.34	5. 16 8. 88 5. 85	+1.18 +4.60 +2.50	3.82 1.06 3.93	-1.64 -5.46 -1.36	4.06 1,43 3.76	-1.78 -5.81 -2.76	3.38 5.98 8.60	-1.81 +0.74 +2.48	3. 63 3. 54 5. 56	-0.68 -2.75 +1.21	0, 88 2, 86 1,72	-2.16 +0.52 -1.00	2. 57 1. 14 4. 62	+0.36 -1.35 +2,55	2. 52 1. 46 1. 52	-0.48 -2.13 -1.65	34. 72 37. 75 7 44. 78	- 2.09
Marion Mars BluffOrangeburg. Pinopolis Rimini	†0. 98 0. 80 1. 55 0. 93	-2.06 -1.98	\$3.78 3.71 4.08 3.99	+0.31	†3,32 3,24 2,81 1,67	-0. 85 -1. 96	1.21 0.95 2.33 1.73	-0.54 -1.30	5.58 5.68 6.16 1.57	+2.68 -2.21	1.91 3.36 3.30 2.20	-1, 58 -3, 57	5. 29 5. 10 3. 66 8. 39 3. 30	-2, 98 +1, 55 -3, 80	8. 04 6. 33 7. 95 3. 08	+1.76 +1.16	4.38 4.10 3.58 2.50	-0.42 -1.11 -2.83	2.07 1.78 2.52 1.30	-0.38 -0.39 -0.93	2. 80 3. 74 2. 49 2. 95	+2.21 +0.06 +1.0	1. 54 1. 46 1. 20 1. 92	-1.6 -1.7 -1.2	41.67 5 41.25 6 38.22 2 35.00	- 3.47 -11.06 -12.59
Society Hill	1. 72 1. 07 0. 94 1. 53	-1.47 -2.07 -2.62 -2.06	4. 08 4. 17 3. 81 3. 90	-0.38 +0.30 -0.19 -0.10	4.87 1.19 1.79 3.35	+1.43 -2.17 -1.66 -0.12	1.45 3.38 3.56 1.50	-2.02 -0.10 +0.44 -1.63	1.50 2.73 4.49 5.93 10.01	+0.06 -0.71 +1.26 +2.61 +6.35	7. 52 2. 70 13.35 2. 77 2.87	$\begin{array}{c} +2.18 \\ -2.98 \\ -1.22 \\ -1.95 \\ -3.30 \end{array}$	6.44 2.53 4.13 3.01 3.45	+0.05 -1.49 -0.96 -2.07 -3.80	7.51 8.34 4.20 3.40 8.01	+1.88 +1.75 -1.17 -2.32 +1.88	2. 39 2. 14 4. 40 4. 54	-2.81 $-2.09$ $+0.22$ $-0.02$	2.87 0.79 2.15 3.21	-0.20 -1.97 -0.59 +0.45	2.28 2.36 3.00 2.18	5 - 0.05 5 + 0.36 5 + 0.95 5 - 1.15	3 1.70 1.83 2.05 2.05 2.02	-1.7 -1.6 -1.2 -1.3	3 25. 35 7 *3359 2 26. 99 4 46. 18	5 - 15.14 9 - 11.55 9 - 8.31 8 - 4.02
Division means and departures.	1.22	-2.03	3, 87	-0.06	2 86	-0.63	1, 97	-1.12	5.31	+1.71	3. 20	6-2,12	3.86	-2,56	5.78	-0.14	3.88	-0.76	1.90	-0.94	3.00	+0.7	1.77	-1.4	3 38. 6	3 9.36
WESTERN PORTION.	1	0.01	0.00	-0.30		+0.00	E 80	19.50	6 63	+8.08	8.48	+3.81	1, 82	-3. 25	0.83	-4.28	4. 3:	+0.72	4.13	+1.44	0.2	2 -2.3	2,59	-1.0	5 44.0	9 - 1.66
Aiken	4.07		9.01		10.01		19		0.0.			1					l				1					9 - 1.66 7 + 1.84 9 + 2.06 6
Calhoun Falls Camden Catawba Chappells								+0.39 -1.22 -0.19 +0.08							5.28	+0.4	7 2.18	-1.58 -1.69	6.00	+3.3	9 2.5	4+0.0 $7-1.2$	9 3.81 8 3.23	-0.1	14 48.6	2 - 1.66
Cherokee (near). Chester. Clenson College Columbia Crescent	2.4		4.90 5 4.6 2 8.77	-0.73 0.00	7. 08 5. 60 3. 16	+0.66	4.09 3.70 2.81		4. 32 5. 97 3. 61	+1.95 +0.52	5.40 5.00 3.30 5.2	6 +0.10 0 -0.8	4. 83 7. 75 4. 27 4. 97	+2.59 -1.08	6. 4 5. 7 3. 69 9. 19	7 +0.99	6.00 6 2.49 6 1.9 3.20	-1.5- -1.48	5. 27 5. 60 2. 60 8. 21	+2.3 +0.0	2. 6 4 8. 2 4 3. 1 3. 2	7 + 0. 4 8 + 1. 2	3, 12 3, 98 1 4, 68 0 2, 29 . 5, 89	5 -0.5 9 -0.7	58 57. 2 74 35. 7 69. 2	5 + 3.83 5 - 6.84
Edgefield Ellenton Gaston Shoals Greenville Greenwood		-2.10 -2.20 -2.20 -2.20 -1.30	3.55 3.65 5.56 4.36	-0.50 +0.90 -0.8	6.24 2.83 5.26 6.00 8 4.44	+2.15 +0.46 +0.85 +0.15	5.07 5.07 4.94 4.27 5.3,34	+1.65 +1.51 +0.56 +0.23	7.74 4.52 5.00 4.51 4.02	+1.30 +1.33 +0.48 +0.25	5.0 5.0 6.7	1 +0.66 7 +0.5	9.58 2.76 2.92 6.58	-1.89 -2.4 +1.3	1.4 4.4 5.0 7 3.4	1 0.8 0 0.5 0 1.4	6 3.6 0 1.7 4 3.0	+0.1. 2 -1.9 2 -0.6	7.43 3.22 4.53	3 + 4.4 2 + 0.1 4 + 1.6	5 3.2 0 2.9 4 1.4	$     \begin{array}{c}       0 + 0.4 \\       6 - 0.2 \\       6 - 1.2     \end{array} $	5 2.68 2 3.41 1 3.64	$ \begin{array}{c c}  & -1 & 6 \\  & -1 & 6 \\  & -6 & 6 \end{array} $	50 51.9 43 46.0 73 47.9	$     \begin{array}{r}                                     $
Heath Springs Kershaw Landrum Laurens Little Mountain	0.8 0.8 3.0 2.3	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2 2.9 3 2.66 7 4.50 4 3.06	-0.99 -1.2 -0.10 -1.89	4.44 1 2.77 10.22 5 4.03	+0.78 -1.28 +4.89 -0.38	3.94 3.30 4.08 2.86	+0.68 $-0.48$ $-0.52$ $-1.00$ $+0.85$	3.97 3.4.28 2.6.21 7.78 6.71	+0.77 +0.75 +0.62 +3.84 +3.50	5.7 4.3 10.4 8.2 5.0	7 + 0.5 6 - 0.5 8 + 5.6 0 + 3.9 9 + 0.8	6 5.28 2 6,71 5 4.84 2 3.88 9 4.49	+0.2 +1.1 -2.0 -1.2 -0.5	3.0 5 6.1 0 8.3 9 2.4 1 3.6	6 + 1.8 6 + 3.4 9 - 1.9 3 - 1.5	3 3.7 4 3.4 8 2.1 1 2.3	$     \begin{array}{r}       -0.2 \\       4 -0.0 \\       4 -1.2 \\       4 -1.9 \\       5 -1.6 \\     \end{array} $	7 2.25 9 5.00 9 5.78 9 5.11	5 - 0.5 6 + 0.8 8 + 2.4 2 + 2.1	5 3.6 6 5.3 4 2.8 9 0.9	0 +1.5 8 +1.8 4 -0.0 0 -1.4	5 1.40 7 3.25 6 4.14 7 2.85	0 -1.6 9 -1.3 4 -0. 3 -1.	65 42. 1 52 68. 9 18 49. 5 14 44. 6	0 - 3.20 $0 + 9.63$ $7 - 0.57$ $3 - 0.36$
Long Creek Newberry Pelzer Saluda Sautuck	1.8	3 -2.1	5.53 5 3.83 7 4 7	2 3 -1. 13 -0. 0 2 -2. 5 -2. 5	8.69 2 3.90 5 5.68 6 6.00 9 3 94	+0.86 +1.65	4. 69 3. 68 4. 23 2. 3. 58 5. 3. 93	3 +0.38 3 +0.36 3 +0.40 2 +0.60	5.78 7.90 6.4.90 6.86 0.8,83	+4.24 +0.75 +3.89 +5.53	9.8 12.0 4.6 3.6 4.6	5 +7.8 5 +0.5 2 -0.9 0 +0.5	9 4.45 4 5.00 8 5.20 5 5.61	$ \begin{array}{c} -0.2 \\ -0.3 \\ +0.1 \\ +0.5 \end{array} $	2 3.9 5 5.1 3 3.2 2 3.9	8 -1.2 8 +0.8 8 -1.4 0 -1.6	3 1.9 2 2.8 8 1.8 7 3.2	9 - 1.4 $ 0 - 0.7 $ $ 0 - 1.9 $ $ 6 - 0.4$	6 4.25 6 5.85 2 4.8 0 6 5	2 +1.4 3 +2.5 7 +1.8 0 +3.4	4 0.7 8 1.9 9 1.2 5 1.3	9 - 1.8 9 - 0.8 9 - 1.5 15 - 1.5 17 - 1.4	2 3.8 7 8.7 4 2.8 7 8.9	5 - 0. 3 - 1. 5 - 1. 0 - 0.	47 51.9 32 51. 6 19 43.8 24 50. 8	$\begin{array}{r} 96 + 5.40 \\ 77 + 0.91 \\ 82 - 3.30 \\ 32 + 2.08 \end{array}$
Spartanburg Trentou Walhalla Winnsboro Winthrop College	1.8 1.4 3.4 1.3 2.4	$ \begin{array}{c c}  & -2.1 \\  & -2.1 \\  & -1.5 \\  & -2.1 \\  & -2.1 \\  & -1.1 \end{array} $	6 3.7 5 4.3 4 4.8 7 3.3 8 3.2	-0.9 -0.5 -0.6 -1.0 -0.9	4 4. 75 6 6. 38 0 8. 23 2 5. 60 1 4. 35	$ \begin{array}{c} -0.1 \\ +1.9 \\ +2.1 \\ +1.4 \\ +0.2 \\ \end{array} $	1 1.98 8 4.86 2 3.98 1 2.88 8 2.6	0 + 0.55 0 + 1.39 0 - 0.79 0 - 0.10 0 - 0.59	7 4.58 9 6.00 2 5.23 6 7.22 2 6.39	0 +0.55 +2.74 6 +1.06 2 +3.70 9 +2.32	5.9 3.5 8.5 7.9 4.4	8 + 1.6 9 - 0.8 1 + 3.8 4 + 3.3 0 - 0.3	2 4.15 1 3.95 9 3.56 7 6.1 2 3.25	$ \begin{array}{c} -0.5 \\ -1.7 \\ -2.4 \\ +0.9 \\ -1.9 \end{array} $	9 4.2 7 5.2 0 5.3 9 5.4 0 3.4	$ \begin{vmatrix} 0 & -1 & 2 \\ 1 & -0 & 0 \\ 8 & -0 & 3 \\ 8 & +0 & 2 \\ 0 & -1 & 8 \end{vmatrix} $	2 1.8 4 1.3 0 7.0 7 4.1 4 2.1	3 - 1.8  4 - 2.3  8 + 1.9  7 + 0.5  0 - 1.3	9 4.7 0 3.8 4 7.3 5 5.2 1 6.9	5 + 2.0 $0 + 0.2$ $5 + 3.9$ $0 + 2.0$ $6 + 4.2$	00 3. 8 8 T 92 4. 1 98 1.2 21 2. 3	60 +0.5 -2.6 10 +0.8 26 -0.9 340.0	90 3.0 15 5.1 16 4.2 16 2.2 18 3.5	9 -1. 4 +1. 8 -1. 8 -1. 4 -0.	09 46. 0 36 45. 5 08 65. 5 00 52. 7 64 45. 1	$\begin{array}{c} 35 - 2.30 \\ 52 - 2.33 \\ 97 + 7.15 \\ 78 + 7.67 \\ 10 - 1.89 \end{array}$
Division means and departures. Section means and departures.	2. 3	1 -1.6 -1.6	8 3.8	0.7	6 5.28	+0.9	3.8	+0.39	9 5.78	+2.10	6.0	6  + 1.7	0 4.8	-0.4	3 4.0	1 -0.4	0 3.0	-0.4	1 4.0	1 11.0	2.0	-0.1	94 0. 4	1 0.	100000	55 + 2.54 55 - 2.09

The departures from the normal precipitation are computed only for such stations as have ten or more years of record. †Interpolated. \*Partly interpolated.

Monthly and Annual Mean Temperatures for the Year 1934, with Departures from the Normal.

	Jar	uary.	Feb	ruary	. м	arch.	A	pril.	1	lay.	J	une.	J	uly.	An	igust. September October. November December. Am										
	-	1	-	1	-	T		T		1			-	1	-		ССР	T	- Oet	ober.	Nov	ember	Dece	mber.	Anı	nual.
Stations.	Temperature	Departure.	Temperature	Departure.	Temperature	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.	Temperature.	Departure.
EASTERN PORTION. Beaufort (near). Bishopville. Blackville. Charleston.	52.6	+2.7	46. 0	-6.4	56.0	-1.4	65.8	+1.1	71.0	-2.2 $-1.7$	81.2	+2.6	83.6 83.9	+2.4 +2.5	81.7 82.2	+1.2 +1.2	78.1 78.2	+2.2 +1.6	67.2 65.7	+2.2 +0.9	58.6	+1.5 +3.0 +1.6	°52. 1 40.9 48. 4 50. 2	+0.9	66. 8 (3. 3 65. 6	+0.3
Conway Darlington Ferguson Florence 1	50.6 48.4 49.2 48.4	+2.4 +2.9 +2.1 +2.8	44. 4 39. 5 44. 1 39. 2	-4.7 -7.1 -4.3 -8.0	55. 7 52. 1 51. 6 52. 0	-0.8 -3.2 -1.4 -3.7	66.2 63.8 64.8 64.0	+3.1 +1.6 +2.3 +1.1	70.0 69.8 70.0 69.1	-0.6 -0.7 -0.9 -1.1 -2.9	79.7 79.7 79.7 81.2 79.8	+2.6 +2.6 +2.7 +3.9 +1.2	83.0 82.6 83.4 84.0 83.0	+3.1 +2.7 +3.5 +4.4 +1.7	79.8 81.3 80.7 82.0 80.4	+1.3 +2.0 +1.9 +3.5 +0.2	76.0 76.8 76.8 77.5 75.8	+2.4 +1.8 +2.1 +2.8 +0.6	63. 0 65. 3 63. 8	+0.8 +0.4 +0.1	55. 6 57. 8 55. 8	+3.6 +3.2 +2.8 +1.9	45.6 48.2 44.9 145.2 44.5	+0.9 -0.2 -0.8 -3.0 -1.3	63.0 64.9 63.2	+1.1 +1.0 +0.4
Kingstree Marion Orangeburg Pinopolis Society Hill	51. 4 50. 8 47. 0	+3.4 +3.1 -1.0 +3.7	44. 6 45. 2 41. 1	-6.2 -8.1	56. 2 °51. 8 *56. 0 52. 2	-0.6 -1.1 -4.3	66.3 63.8 65.4 62.1	+0.8	70, 6 70, 0 69, 8 67, 2	-0. 2 -1. 0 -0. 9 -2. 5	81.1 81.0 80.0 76.5	+1.9 +3.1 +1.8 +0.3	983.8 84.4 983.6 83.1 80.1	+2.7 +4.0 +2.9 +1.9	82.2 d81.0 80.5 b78.3	+0.9 +2.7 +0.8 +0.6	677.6 77.7 676.9 76.1 74.0	+0.4 +2.8 +0.3 -0.3	65. 8 65. 9 63. 6 65. 2 62. 4	-2. 2 +1. 2 -0. 6 -1. 8	58.6 58.8 58.8 57.6 55.1	+1.4 +3.9 +2.7 +0.8	<sup>h</sup> 52. 2 49. 0 46. 2 47. 5 45. 1	+0.7 +0.7 -1.3 -2.9	65.8 65.7 64.8 61.8	-0.4
Summerville Sumter Wedgefield Yemassee.	49.8 49.0 49.5 51.9	+0.4 +2.4 +3.6 +3.0	43. 4 42. 7 42. 4 46. 2	-7, 2 -6, 2 -6, 4 -4, 2	54. 4 53. 7 57. 4	+0.2 -0.5 -0.5	65.3 64.6 66.0	+2.6 +1.9 +1.8	69. 4 *69. 0 70. 6	-0.9 -1.1 -1.9 -2.2 -1.5	79. 4 80. 3	+2.1 +2.1	82, 6 82, 2 83, 3	+2.9 +2.8 +2.7	80, 7 80, 2 81, 1	+1.2 +2.3 +2.0 +1.2	77. 2 76. 4 75. 6	+1.7 +2.0 +1.3 +1.6	65.2 64.2 64.8	-0.6 +0.2 +0.8 +0.7	57. 0 56. 5 56. 7 58. 2	+1.8 +2.4 +2.6 +2.6	46.5	-1.8	63. 7	+0.7 -0.2 +0.5 +0.8
departures. WESTERN PORTION.			1011	0.0	04.2	2.2	05.0	11.0	70.0	-1.5	80. 1	+2.3	83. 2	+3.0	80.9	+1.5	76.8	+1.5	65.0	0.0	57.2	+2,2	47.3	-1.0	64.4	+0.3
Aiken Anderson Cæsar's Head, Calhoun Falls Camden	45. 8 45. 9	+3.3	39.6 36.9	-6.9 -10.5	50.5 50.0	-2. 2 -4. 2	61.6	+0.4 -0.9	62.6 69.0 68.9	-0.1 $-2.2$	71.1 78.7 79.2	+1.4 +1.4	74.1 82.6 84.6	+2.6 +4.3	70. 8 81. 1 81. 6	+2.4	67. 4 75. 5	+0.9	56.8	-0.1	49.0 52.8	+1.6	88. 6 42. 7	-1.5	61.6	+0.1
Cherokee (near)	43. 4		37.7		47.4		€0.2		66.8		76.0		80.4		77. 5		20 0	- }.		1						
Clemson College Columbia Greenville	46.5 49.1 44.2	+3.6 +3.1 +3.9	41. 4 41. 7 38. 1	-3.2 $-6.5$ $-5.2$	49.9 53.0 48.5	-2.6 -2.2 -1.4	61.7 63.9 60.4	+1.6 +0.6 +1.8	68.7 69.7 68.8	+0.2 -2.2 +1.6	77.4 80.3 78.2	+1.9 +2.2 +4.1	80. 6 82. 7 81. 6	+2.4 +1.8 +4.7	78.9 80.7 78.0	+1.5 +1.1 +2.2	75. 0 77. 0 71. 3	+2.1 +2.5 +3.7	68,6 64,6 62,8	+1.8 +0.3 +2.6	53. 6 56. 7 53. 6	+2.6 +2.7 +1.0	43.4 43.2 45.6	-0.4 -1.6 +0.5	61.7	+1.0
Heath Springs Kershaw Landrum Laurens	45. 0 45. 1 44. 8 46. 2	+2.0 +1.3 +2.6 +3.4	38.8 36.6 38.8 34.9 40.0	-5.6 -8.1 -8.5 -6.5 -6.2	49. 8 48. 6 51. 4 48. 3 50. 0	-2.9 -4.7 -2.6 -2.9 -2.6	62. 2 60. 8 62. 1 60. 6 62. 4	+1.0 +0.2 -0.4 +0.7 +1.7	69. 4 67. 2 69. 0 67. 6 69. 0	$   \begin{array}{r}     -0.9 \\     -2.3 \\     -0.6 \\     +0.5 \\     +1.0   \end{array} $	79.3 77.2 79.4 76.6 79.4	+2.1 +1.0 +2.4 +1.8 +3.1	81.7 79.6 81.8 81.6 83.0	+2.2 +0.5 +2.4 +4.1 +3.6	80. 0 77. 6 79.4 77. 7 80. 4	+1.7 -0.6 +0.9 +1.1 +2.5	75.8 73.4 75.3 73.2 76.3	+2.4 0.0 +0.8 +0.2 +2.5	62.7 61.2 62.5 61.8 63.2	+0.5 -1.1 -1.3 -0.4 +0.8	54. 4 53. 4 54. 2 53. 4 53. 8	+2.5 +1.5 +1.5 +2.5 +2.5	43. b 41. 4 44.0 43. 0	+0.2 -2.1 -2.5 -0.4		
Long Creek. Newberry Saluda Santuek	42. 6 47. 8 44. 6 45. 2	+2.9 -0.5 +2.2	36. 0 40. 6 38. 7 37. 8	-7.5 -5.9 -8.6 -6.3	51.6 46.4 51.2 49.7 49.0	-3.4 -3.5 -5.5 -3.9	61.2 57.4 62.2 61.4 61.0	-0.6 -0.2 -0.8 +0.7	68. 0 65. 5 68. 6 67. 8 67. 0	-3.0 -2.2 -2.7 -2.6	78.5 74.3 79.0 78.8 79.0	+1.0 +0.8 +1.2 +2.4	81. 2 78. 1 82. 7 82. 0 82. 6	+1.2 +2.0 +2.0 +3.0	78. 8 76. 2 81 1 80. 9 80. 2	-0.3 +1.6 +2.0 +1.9	75. 0 71. 2 77. 2 76. 4 75. 6	+0.2 +2.0 +1.8 +2.0	64.0 59.6.	+0.1	55.6	+2.0	42.9 39.9	-2.9	61.8 58.2	-1.0
Trenton Walhalla Winnsboro Winthrop College	47. 2 43. 4 45. 6 45. 5	+0.5 +1.1 +1.6 +2.1	41. 6 37. 2 38. 2 38. 2	-5. 8 -6. 9 -7. 6 -6. 4	47.8 51.5 46.6 50.5 49.7	-3.4 -4.4 -4.6 -2.7 -8.5	59. 8 64. 1 59. 6 62. 2 62. 0	-0.3 +1.0 +0.7 +0.8 +1.0	68. 0 69. 8 67. 2 69. 2 68. 1	-1.0 -1.8 +0.3 -1.8 -1.2	78.0 78.8 76.6 79.8 78.2	+1.9 +0.6 +1.9 +2.9 +1.8	81. 6 83. 6 80. 3 82. 7 81. 8	+2.6 +3.5 +3.1 +2.9 +2.4	78.4 81.6 78.1 80.6 79.0	+0.9 +2.3 +1.7 +2.4 +0.8	74.4 76.8 73.4 76.0 75.0	+2.2 +1.5 +1.7 +2.1 +1.7	62. 0 65. 3 62.1 62. 5 62. 4	+1.1 +0.6. +1.3 -0.1	51.8 54.0 54.0	+2.4 +1.4 +1.3 +2.2	41.8 41.6 43.0 43.3	-0.4 -2.0 -1.9 -0.5	60. 6 59. 8 62. 0 61. 4	+0.3 -0.1 0.0
Division means and departures. Section means and departures.			00.0	-1.2	49. 8	-3.6	61.5	+0.2	68. 1	-1.5	78.0	+1.4	81.4	+2.1	79. 1	+0.9	74 0	41 0	60 5	-0.1	53.7	+1.6	42.8	-2.1 -2.0	61.3	-0.5
The departure																	- 11	1								

The departures from the normal temperature are computed only for such stations as have ten or more years of record. Reference letters (\*, \*, \*), appearing in the table indicate number of days missing: For example, \*b represents two days missing, etc.

## WEATHER BY MONTHS.—Continued. (CONTINUED FROM PAGE 49.)

Peaches were in full bloom by the 31st. Cotton planting began the last week along the coast, and some corn was planted over the State.

April.—Both temperature and rainfall averaged about normal. The last part of the month was cool and showery, further delaying plowing and seeding in the upper part of the Section. Grain headed on short straw in the southern portion from a general lack of sufficient moisture. A hailstorm did about \$15,000 damage to peaches and asparagus near Johnston on ally light, especially in southern sections, damaging truck and the 17th.

May.—The latter half of the month was unusually cool and wet. Cotton planting in the upper part of the State was not completed until about the 15th; chopping and cultivation proceeded in the southern portion. Germination and growth of corn and minor crops were improved by generous rains.

Damage from windstorm, hailstorms and washing rains amounted to over \$175,000 to crops and property the last week. Two persons were killed by lightning.

June.—Temperatures averaged high, rainfall was nearly normal. All crops, except cotton, were cheeked by drought and heat the last 10 days. Thunderstorms, hailstorms and lightning caused damage estimated at \$32,000. One person was killed by lightning.

July.—Unusual warmth continued, but rainfall was genervegetable crops. Cotton blooming and fruiting made good progress and late corn made favorable advance. Damage from lightning and hailstorm was about \$21,000. Three persons were

gress, with picking in southern portion. Late corn and minor crops responded to increased moisture the last two weeks. One person was killed by lightning. Hail and thunderstorm damage was estimated at \$12,000.

September.—The month averaged warm, with rainfall somewhat deficient. Cotton picking made headway in upper sections by the 20th, and continued active elsewhere; insufficient sunshine caused considerable boll rot in some northwestern localities; ginning became active near the close of the month. Fall grain sowing made good progress; late gardens and truck thrived. One person was killed by lightning.

October.—Temperature was normal; rainfall was heavy in the western portion, but light in the eastern. Cotton picking and ginning made rapid progress, with picking about completed in southern and central counties by the 10th. The corn crop was only fair. Freezing temperatures practically extended to the coastal plain on the 29th, closing an unusually good late garden and truck production.

November.—Both temperature and rainfall averaged slightly above normal. Winter grain sowing was mostly completed by the 25th, followed by generally good stands. Damage from windstorm and lightning was about \$17,000.

December.—Decidedly cold and rather dry weather prevailed. Winter plowing progressed favorably the first two weeks. Grain and truck suffered considerable damage from the hard freeze around the 12th, but mild conditions the last week were favorable.

COMPARATIVE DATA FOR SOUTH CAROLINA.

		Temper	ature.			Prec		Nun	nber	of D	ays.		
Vear	Mean	Departure	Highest	Lowest	Average	Departure	Greatest Monthly	Least Monthly	Average	Precip01.	Clear	Partly Cloudy	Cloudy
1887 1888 1888 1888 1888 1888 1889 1891 1891 1891 1891 1892 1891 1892 1892 1895 1895 1895 1895 1896 1896 1896 1896 1896 1896 1896 1897 189	62. 3 61. 8 62. 4 64. 62. 62. 62. 63. 8 63. 2 62. 63. 3 63. 7 62. 64. 62. 62. 64. 62. 62. 62. 62. 62. 63. 8 63. 7 62. 64. 64. 62. 62. 62. 62. 63. 63. 63. 63. 63. 63. 63. 63. 63. 63	-0.7 2 -1.2 2 -1.2 1 -1	110 108 102 104 107 107 108 108 109 111 108 106 106 107 108 108 108 108 108 108 108 108 108 108	55 133 100 111 133 66 67 37 38 -11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	43, 43, 43, 43, 44, 63, 64, 64, 64, 64, 64, 64, 64, 64, 64, 64	$\begin{array}{c} -4.39 \\ +6.39 \\ +6.90 \\ -0.22 \\ -0.38 \\ +8.94 \\ +8.94 \\ +8.94 \\ +1.02 \\ -2.26 \\ -1.34 \\$	51, 29 9 67, 60 61, 62 63, 63 64, 64 65, 65	39, 65 242 442 404 434 435 435 435 435 435 435 435 435 43	0.4 12.5 3.0 6.2 1.9 2.3 1.7 1.0 0.5 0.1 0.3 T.	96	154 154 158 143 158 167 172 172 186 188 169 1177 1181 161 1181 163 1181 1181 1181 1181 1	123 1116 102 199 102 199 102 95 87 103 114 1120 97 85 85 114 81 111 1120 97 85 88 88 88 88 88 88 88 88 88 88 88 88	

MONTHLY AND ANNUAL CLIMATOLOGICAL DATA FOR SOUTH CAROLINA, YEAR 1934.

		BC	OUT	ж	CAR	OLIN	A, x	E. P	116	4	204						
	Te	mpera	ture		Precipitation.				humidity.		possible sun-		ium f di			Wi 3-cur	nd. Ane.
Months.	Mean.	Departures.	Highest.	Lowest.	Average.	Departures.	Greatest local monthly amount.	Average-8 a. m.	Noo	P. 7	Percentage of possine.	Rainy.	Clear.	Partly Cloudy.	Cloudy.	Average hourly velocity.	Prevailing direction.
January February March April May June July August Scptember October November December	79. 9 75. 7 63. 6 55. 2 44. 8	+1.5 +2.4 +1.1 +1.2 0.0 +1.5 -2.0	85 92 96 103 106 102 96 91 85 78	25 40 52 60 53 48 27 18	1, 88 3, 83 4, 28 3, 03 5, 58 4, 92 4, 46 5, 02 3, 55 3, 63 2, 73 2, 74	+1, 96 +0, 15 -1, 34 -0, 68 -0, 55 +0, 60 +0, 41 -0, 89	10, 22 7, 60 10, 01 12, 05 9, 53 10, 10 12, 59 8, 21 7, 82 5, 89	81 75 79 82 82 85 89 *1 80 78	55 58 51 56 58 60 62 62 51 53 57	66 60 67 63 67 72 76 77 67 66 66	66 78 70 53	8	14 10 13 21 18 13	8 12 12 10 4 4 6	9 9 7 5 9 7 6 8 12	10.4 10.1 9.5 8.1 7.6 6.8 7.4 9.0 8.3	ne. ne. w.
Annual	62.7	*-0.3	106	-2	45, 65	-2.09	2.59	81	57	69	66	96	179	83	108	8.7	re.

<sup>\*</sup> From 48-year averages.

### KILLING FROST OR FREEZING TEMPERATURE DATES AND GROWING DAYS.

	19	34.		es-all recears or nic	
Stations.	Last in spring.	First in autumn.	Last spring date.	First autumn date.	No. of grow- ing days.
EASTERN PORTION.	Nr. 10	Nov. 16	Feb. 24	Dec. 5	284
Beanfort (near)Bishopville	Mch. 12 Mch. 13	Nov. 12	1 CD. 24		
Blackville	Meh. 13	Nov. 12	Mch. 20	Nov. 14	239
Charleston	Meh. 12	Nov. 15	Feb. 20	Nov. 3	294 218
Cheraw	Mch. 25 Mch. 16	Oct. 29	Mch. 30 Mch. 23	Nov. 9	231
Conway	Mch. 16	Oct. 29	Mch. 29	Nov. 4	220
Darlington		Oct. 29	Mch. 26	Nov. 8	227
Florence No. 1	Meh. 16	Oct. 29	Meh. 19	Nov. 12	238 248
Garnett	Meh. 16	Oct. 29	Mch. 10 Mch. 15	Nov. 13 Nov. 14	248
Kingstree	Mch. 21 Mch. 16	Oct. 29 Oct. 29	Men. 15	NOV. 19	211
Marion Orangeburg	Mch. 16	Nov. 12	Mch. 18	Nov. 15	242
Pinopolis	Meh. 16	Nov. 12	Mch. 5	Nov. 25	265
Society Hill	Meh. 25	Oct. 80	Mch. 24	Nov. 8	229 242
Sunmerville	Meh. 16 Meh. 17	Oct. 29 Oct. 29	Meh. 16 Mch. 19	Nov. 13 Nov. 14	242
Suinter	Mch. 17	Nov. 12	Mch. 21	Nov. 19	243
Yemassee	Meh. 16	Oct. 29	Mch. 15	Nov. 13	243
			Meh. 16	Nov. 14	243
Normal Averages for 1934	Meh. 16	Nov. 4	Bien. 10		233
WESTERN PORTION.					
Aiken	Mch. 15	Nov. 12	Mch. 17	Nov. 19	247
Anderson	Mch. 20	Nov. 12	Mch. 25	Nov. 9	229
Caesar's Head	Apr. 22	Oct. 28		.,,	221
Cathoun Falls	Meh. 16 Apr. 13	Oct. 29 Oct. 29	Mch. 29 Mch. 14	Nov. 5 Nov. 13	244
Camden	Apr. 21	Oet. 29	pien. 19	1000. 10	
Clemson College	Apr. 13	Oct. 29	Apr. 1	Nov. 2	215
Columbia	Meh. 15	Nov. 12	Mch. 17	Nov. 18	246 221
Greenville	Apr. 14	Nov. 12 Nov. 12	Mch. 30 Mch. 23	Nov. 6 Nov. 9	231
Greenwood	Meh. 16 Meh. 24	Nov. 12	Mch. 23 Mch. 27	Nov. 6	224
Kershaw	Mch. 24	Oct. 29	Mch. 28	Nov. 7	224
Landrum	Meh. 16	Oct. 29	Apr. 5	Oct. 31	209
Laureus	Apr. 13	Oct. 29 Nov. 12	Apr. 2 Meh. 25	Nov. 6 Nov. 11	218 231
Little Mountain	Apr. 13 Apr. 21	Oct. 29	Men. 25	NOV. II	201
Newberry	Meh. 16	Nov. 12	Mch. 29	Nov. 5	221
Saluda	Mch. 16	Oct. 28	Apr. 3	Oct. 31	211
Santuck	Apr. 22	Oct. 29	Apr. 5	Oct. 30 Nov. 3	208
Spartanburg	Meh. 15 Meh. 18	Nov. 12 Nov. 12	Mch. 31 Mch. 20	Nov. 3 Nov. 15	240
Walhalla	Apr. 14	Oct. 29	Apr. 8	Oct. 28	203
Winnsboro	Mch. 16	Nov. 12	Meh. 25	Nov. 13	233
Winthrop College	Apr. 13	Nov. 12	Meh. 28	Nov. 26	223
Normal			Meh. 27	Nov. 7	225
Averages for 1934	Meh. 31	Nov. 5			219
Section Normal			Meh. 22	Nov. 10	233
Section averages for 1934	Meh. 25	Nov. 4			224

Nore.—Killing frost data in above table determined according to the following standard: Last or first clear or partly cloudy day with temperature of 32° or lower and last or first cloudy day with 31° or lower, but without rain, sleet or snow; in case of precipitation, then the next preceding or succeeding day with proper temperature and weather was used. The average number of growing days is the difference between the average spring and autumn killing frost dates.



- Meteorological observations. (Regular Weather Bureau Stations, including Spartanburg.)
- O Meteorological observations (Sub stations.)

